

09 Workspace API Reference

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1 Before You Start

[1.1 Introduction](#)

[1.2 API Calling](#)

[1.3 Endpoints](#)

[1.4 Constraints](#)

[1.5 Concepts](#)

1.1 Introduction

Welcome to Huawei Cloud Workspace. Huawei Cloud Workspace is a workspace service based on cloud computing. Unlike conventional PCs and VDIs, Workspace enables enterprises to quickly build workspace environments without investing a large amount of money and spending days in deployment. Workspace supports multiple login modes, allowing you to flexibly access files and use applications for mobile office.

This document describes how to use application programming interfaces (APIs) to perform operations on workspaces, such as creating, querying, and deleting workspaces. For details about all supported operations, see [2 Overview](#).

Before calling Workspace APIs, ensure that you fully understand Workspace concepts. For details, see Workspace User Guide (Administrator).

1.2 API Calling

Workspace supports Representational State Transfer (REST) APIs that can be called over HTTPS. For details about API calling, see [Calling APIs](#).

1.3 Endpoints

An endpoint is the request address for calling an API. Endpoints vary depending on services and regions. You can obtain the endpoints of all services by referring to [Regions and Endpoints](#).

Table 1-1 Workspace endpoints

Name	Region	Endpoint
CN-Hong Kong	ap-southeast-1	workspace.ap-southeast-1.myhuaweicloud.com
LA-Santiago	la-south-2	workspace.la-south-2.myhuaweicloud.com
AP-Singapore	ap-southeast-3	workspace.ap-southeast-3.myhuaweicloud.com
LA-Sao Paulo	sa-brazil-1	workspace.sa-brazil-1.myhuaweicloud.com
LA-Mexico City1	na-mexico-1	workspace.na-mexico-1.myhuaweicloud.com
LA-Mexico City2	la-north-2	workspace.la-north-2.myhuaweicloud.com

1.4 Constraints

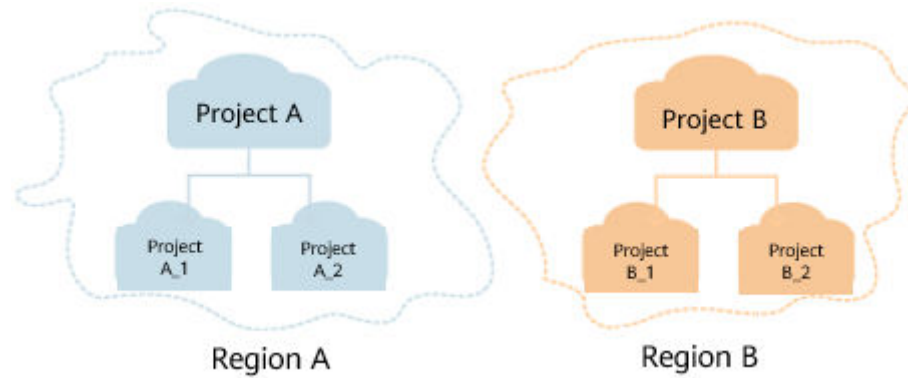
For details, see API description.

1.5 Concepts

- Account
The account has full access permissions for all of its cloud services and resources. It can be used to reset user passwords and grant user permissions. The account is a payment entity and should not be used directly to perform routine management. For security purposes, create IAM users and grant them permissions for routine management.
- User
An IAM user is created by an account in IAM to use cloud services. Each IAM user has its own identity credentials (password and access keys).
The account name, username, and password will be required for API authentication.
- Region
- Availability zone (AZ)
An availability zone (AZ) contains one or more physical data centers. Each AZ has independent cooling, fire extinguishing, moisture-proof, and electricity facilities. Within an AZ, computing, network, storage, and other resources are logically divided into multiple clusters. AZs within a region are interconnected using high-speed optical fibers to support cross-AZ high-availability systems.
- Project
Projects group and isolate resources (including compute, storage, network, and other resources) across physical regions. A default project is provided for

each region, and subprojects can be created under each default project. Users can be granted permissions to access all resources in a specific project. For more refined access control, create subprojects under a project and purchase resources in the subprojects. Users can then be assigned permissions for accessing only specific resources in the subprojects.

Figure 1-1 Project isolation model



2 Overview

Table 2-1 Workspace APIs

Type	Description
Huawei Cloud Workspace	Queries, enables, and cancels Huawei Cloud Workspace.
Tenant configuration	Obtains and modifies the backup configuration of Huawei Cloud Workspace access addresses, and queries, modifies, and updates tenant configurations.
Desktops	Queries, creates, modifies, and deletes desktops.
Desktop pools	Queries, creates, modifies, and deletes desktop pools.
Desktop naming policies	Queries, creates, updates, and deletes desktop naming policies.
Desktop tags	Queries, creates, deletes, and adds desktop tags.
Collaborative desktops	Purchases collaborative desktops and deletes associated resources.
Users	Queries, creates, and deletes users.
User groups	Queries, creates, and deletes user groups.
OUs	Queries OUs and imports user information in OUs.
Disks	Adds and deletes disks and expands disk capacity.
Snapshots	Queries snapshots, creates, deletes, and restores snapshots in batches.
Connections	Queries login information and the number of login users, and exports connection records.
Policy groups	Queries, creates, updates, and deletes access policies.

Type	Description
Terminal-desktop binding	Queries, adds, modifies, and configures terminal-desktop binding.
Orders	Creates an order for purchasing a desktop or changing the specifications of yearly/monthly desktops or desktop pools in batches.
Price inquiry	Queries the prices of switching images, disks, and changing specifications of a yearly/monthly desktop or desktop pool.
Product packages	Queries product packages.
Screen recording audit	Queries screen recording records and screen recording details, and deletes screen recordings in batches.
Scheduled tasks	Queries scheduled tasks of creation, modification, and deletion.
Statistics	Queries added, updated, and deleted notification rules, and statistics of users and desktops.
Alarms	Queries alarms and alarm statistics.
User operation logs	Queries user events.
Script	Queries, adds, updates, and deletes script, and queries script tasks and script execution details.
Quota	Queries tenant quotas.
Images	Queries product images.
AZs	Queries AZs.
Tasks	Queries tasks and subtasks.
Network	Queries bound and unbound EIPs, Internet access of desktops, and ports, and creates and modifies Workspace bandwidth.
Agencies	Enables and queries agencies.
App Center	Queries, adds, modifies, and deletes applications, and sets application permissions.
Application control	Creates, queries, modifies, and deletes application rules, and adds, enables, and disables control rules.

 **NOTE**

For details, see [4 Workspace APIs](#).

3 Calling APIs

[3.1 Making an API Request](#)

[3.2 Authentication](#)

[3.3 Responses](#)

3.1 Making an API Request

Scenario

This section describes the structure of a REST API request, and uses the API for [creating an IAM user as the administrator](#) as an example to demonstrate how to call an API.

Request URI

A request URI consists of the following:

{URI-scheme} :// {Endpoint} / {resource-path} ? {query-string}

Although a request URI is included in a request header, most programming languages or frameworks require the request URI to be separately transmitted.

- **URI-scheme:** protocol used to transmit requests. All APIs use HTTPS.
- **Endpoint:** domain name or IP address of the server running the REST service. The endpoint varies between services in different regions and can be obtained from [Regions and Endpoints](#). For example, the endpoint of IAM in the CN-Hong Kong region is **iam.ap-southeast-1.myhuaweicloud.com**.
- **resource-path:** API access path. Obtain the value from the URI of an API. For example, **resource-path** of the API used to create an IAM user as the administrator is **/v3.0/OS-USER/users**.
- **query-string:** query parameter, which is optional. Ensure there is a question mark (?) in front of each query parameter, that is, in the format of ? **Parameter name=Parameter value**. For example, ? **limit=10** indicates that a maximum of 10 data records will be displayed.

For example, if you want to create an IAM user, use the endpoint of any region (such as **iam.ap-southeast-1.myhuaweicloud.com** of CN-Hong Kong) because

IAM is a global service. Then find the **resource-path** (`/v3.0/OS-USER/users`) in the URI of the API for [creating an IAM user as the administrator](#), and assembly them as follows.

```
https://iam.ap-southeast-1.myhuaweicloud.com/v3.0/OS-USER/users
```

Figure 3-1 Example URI



NOTE

To simplify the URI display, each API is provided only with a **resource-path** and a request method. This is because the **URI-scheme** value of all APIs is **HTTPS**, and the endpoints in a region are the same.

Request Method

HTTP defines the following request modes that can be used to send a request to the server:

- **GET**: requests a server to return specified resources.
- **PUT**: requests a server to update specified resources.
- **POST**: requests a server to add resources or perform special operations.
- **DELETE**: requests the server to delete specified resources, for example, to delete an object.
- **HEAD**: requests the server to return the response header only.
- **PATCH**: requests a server to update a part of a specified resource. If the resource is unavailable, the PATCH method is used to create a resource.

For example, for the API used to [create an IAM user as the administrator](#), the request method is **POST**. An example request is as follows:

```
POST https://iam.ap-southeast-1.myhuaweicloud.com/v3.0/OS-USER/users
```

Request Header

You can also add additional header fields to a request, such as the fields required by a specified URI or HTTP method. For example, to request the authentication information, add **Content-Type**, which specifies the request body type.

Add the following common request header fields to a request:

- **Content-Type**: request body type or format. This field is mandatory and its default value is **application/json**. Other values of this field will be provided for specific APIs if any.
- **Authorization**: signature authentication information. This field is optional. When AK/SK authentication is enabled, this field is automatically specified when SDK is used to sign the request. For details, see [AK/SK Authentication](#).

- **X-Sdk-Date**: time when a request is sent. This field is optional. When AK/SK authentication is enabled, this field is automatically specified when SDK is used to sign the request. For details, see [AK/SK Authentication](#).
- **X-Auth-Token**: user token, which is optional. This field is mandatory for token authentication. The user token is a response to the API used to [obtain a user token](#). This API is the only one that does not require authentication.
- **X-Project-ID**: subproject ID. This field is optional and can be used in multi-project scenarios. The **X-Project-ID** field is mandatory in the request header for accessing resources in a sub-project through AK/SK authentication.
- **X-Domain-ID**: account ID, which is optional. When you call APIs of global services using AK/SK authentication, **X-Domain-ID** is needed in the request header.

For the API used to [create an IAM user as the administrator](#), if AK/SK authentication is enabled, the request with the header is as follows:

```
POST https://iam.ap-southeast-1.myhuaweicloud.com/v3.0/OS-USER/users
Content-Type: application/json
X-Sdk-Date: 20240416T095341Z
Authorization: SDK-HMAC-SHA256 Access=*****, SignedHeaders=content-type;host;x-sdk-date,
Signature=*****
```

Request Body

A request body is generally sent in a structured format as specified in **Content-Type**. The request body transfers content except the request header. If the request body contains Chinese characters, set **Content-type** to **utf-8**, for example, **Content-Type: application/json; charset=utf-8**.

The request body varies depending on APIs. Some APIs do not require the request body, such as the APIs requested using the **GET** or **DELETE** method.

For the API used to [create an IAM user as the administrator](#), the required parameter and description are in the request part of the API. An example of such requests is as follows. Use actual values for the bold fields.

- **accountid**: account ID of the IAM user
- **username**: IAM username to be created
- **email**: email address of the IAM user
- *********: password of the IAM user

```
POST https://iam.ap-southeast-1.myhuaweicloud.com/v3.0/OS-USER/users
Content-Type: application/json
X-Sdk-Date: 20240416T095341Z
Authorization: SDK-HMAC-SHA256 Access=*****, SignedHeaders=content-type;host;x-sdk-date,
Signature=*****
```

```
{
  "user": {
    "domain_id": "accountid",
    "name": "username",
    "password": "*****",
    "email": "email",
    "description": "IAM User Description"
  }
}
```

If all data required for the API request is available, you can send the request to call the API through [curl](#), [Postman](#), or coding. In the response to the API used to

obtain a user token, **x-subject-token** is the desired user token. Then, you can use the token to authenticate the calling of other APIs.

3.2 Authentication

Requests for calling an API can be authenticated using either of the following methods:

- Token authentication: Requests are authenticated using a token.
- Access Key ID/Secret Access Key (AK/SK) authentication: Requests are authenticated by encrypting the request body using an AK/SK.

AK/SK Authentication

NOTE

- AK/SK authentication supports API requests with a body no larger than 12 MB. For API requests with a larger body, use token authentication.
- You can use the AK/SK in a permanent or temporary access key. The **X-Security-Token** field must be configured if the AK/SK in a temporary access key is used, and the field value is **security_token** of the temporary access key.

In AK/SK authentication, the AK/SK is used to sign requests and the signature is then added to the requests for authentication.

- AK: access key ID. It is a unique ID associated with an SK. AK is used together with SK to sign requests.
- SK: secret access key. It is used together with an access key ID to identify a sender who initiates a request and to cryptographically sign requests, preventing the request from being modified.

In AK/SK authentication, you can use an AK/SK to sign requests based on the signature algorithm or use the signing SDK to sign requests. For details about how to sign requests and use the signing SDK, see [AK/SK Signing and Authentication Guide](#).

NOTICE

The signing SDK is only used for signing requests and is different from the SDKs provided by services.

Token Authentication

NOTE

- The validity period of a token is 24 hours. When using a token for authentication, cache it to prevent frequently calling the IAM API for obtaining a user token.
- Ensure that the token is valid while you use it. Using a token that will soon expire may cause API calling failures.

A token specifies temporary permissions in a computer system. Token authentication adds the token in a request as its header during API calling to obtain permissions to use APIs.

When calling the API used to [obtain a user token](#), you must set **auth.scope** in the request body to **project**.

```
{
  "auth": {
    "identity": {
      "methods": [
        "password"
      ],
      "password": {
        "user": {
          "name": "username",
          "password": "*****#",
          "domain": {
            "name": "domainname"
          }
        }
      }
    }
  },
  "scope": {
    "project": {
      "name": "xxxxxxxx"
    }
  }
}
```

After a token is obtained, add **X-Auth-Token** to the request header to specify the token when calling other APIs. For example, if the token is **ABCDEFJ....**, **X-Auth-Token: ABCDEFG....** can be added to the request header as follows:

```
POST https://iam.ap-southeast-1.myhuaweicloud.com/v3.0/OS-USER/users
POST https://iam.eu-west-101.myhuaweicloud.com/v3.0/OS-USER/users
Content-Type: application/json
X-Auth-Token: ABCDEFG....
```

3.3 Responses

After sending a request, you will receive a response, including a status code, response header, and response body.

Status Code

A status code is a group of digits ranging from 1xx to 5xx. It indicates the status of a request. For more information, see [A.1 Status Code](#).

If status code **201** is returned for the API for [creating an IAM user as the administrator](#), the request is successful.

Response Header

Similar to a request, a response also has a header, for example, **Content-Type**.

[Figure 3-2](#) shows the response header for the API for [creating an IAM user as the administrator](#).

Figure 3-2 Response header for the API for creating an IAM user as the administrator

```
"X-Frame-Options": "SAMEORIGIN",
"X-IAM-ETag-id": "2562365939-d8f6f12921974cb097338ac11fceac8a",
"Transfer-Encoding": "chunked",
"Strict-Transport-Security": "max-age=31536000; includeSubdomains;",
"Server": "api-gateway",
"X-Request-Id": "af2953f2bcc67a42325a69a19e6c32a2",
"X-Content-Type-Options": "nosniff",
"Connection": "keep-alive",
"X-Download-Options": "noopen",
"X-XSS-Protection": "1; mode=block;",
"X-IAM-Trace-Id": "token_██████████_null_af2953f2bcc67a42325a69a19e6c32a2",
"Date": "Tue, 21 May 2024 09:03:40 GMT",
"Content-Type": "application/json; charset=utf8"
```

Response Body

A response body is generally returned in a structured format as specified in **Content-type** in the response header. The response body transfers content except the response header.

For the API for [creating an IAM user as the administrator](#), the following message body is returned. The following is part of the response body for the API for obtaining a user token.

```
{
  "user": {
    "id": "c131886aec...",
    "name": "IAMUser",
    "description": "IAM User Description",
    "areacode": "",
    "phone": "",
    "email": "***@***.com",
    "status": null,
    "enabled": true,
    "pwd_status": false,
    "access_mode": "default",
    "is_domain_owner": false,
    "xuser_id": "",
    "xuser_type": "",
    "password_expires_at": null,
    "create_time": "2024-05-21T09:03:41.000000",
    "domain_id": "d78cbac1.....",
    "xdomain_id": "30086000.....",
    "xdomain_type": "",
    "default_project_id": null
  }
}
```

If an error occurs during API calling, an error code and the corresponding error message will be displayed. The following shows an error response body:

```
{
  "error_msg": "Request body is invalid.",
  "error_code": "IAM.0011"
}
```


In the response body, **error_code** is an error code, and **error_msg** provides information about the error.

4 Workspace APIs

- [4.1 Tenant Configuration](#)
- [4.2 Huawei Cloud Workspace](#)
- [4.3 Desktop](#)
- [4.4 Desktop Pools](#)
- [4.5 Desktop Name Policy](#)
- [4.6 Desktop Tag](#)
- [4.7 Collaborative Desktop](#)
- [4.8 User](#)
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- [4.11 Disk](#)
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- [4.15 Binds a terminal to a desktop](#)
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- [4.24 Script](#)
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- [4.28 Task](#)
- [4.29 Network](#)
- [4.30 Agency](#)
- [4.31 App Center](#)
- [4.32 Application Management](#)

4.1 Tenant Configuration

4.1.1 Enabling/Disabling Tenant Functions

Function

Enables/Disables tenant functions.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PATCH /v1/{project_id}/app-center/profiles

Table 4-1 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-2 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 4-3 Request body parameters

Parameter	Mandatory	Type	Description
{User defined key}	Yes	Object	Switch for modifying tenant functions.

Response Parameters

Status code: 200

Response to a successful request.

Status code: 400

Table 4-4 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 401

Table 4-5 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 403**Table 4-6** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 404**Table 4-7** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 405**Table 4-8** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 500**Table 4-9** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 503

Table 4-10 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Example Requests

```
{
  "app_restrict_rule_switch" : "true"
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Response to a successful request.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.1.2 Querying Tenant Function Statuses

Function

Queries tenant function statuses.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v1/{project_id}/app-center/profiles

Table 4-11 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-12 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-13 Response body parameters

Parameter	Type	Description
{User defined key}	Map<String, Boolean>	Queries function switches.

Status code: 400

Table 4-14 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.

Parameter	Type	Description
error_msg	String	Error message.

Status code: 401**Table 4-15** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 403**Table 4-16** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 404**Table 4-17** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 405**Table 4-18** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.

Parameter	Type	Description
error_msg	String	Error message.

Status code: 500

Table 4-19 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 503

Table 4-20 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Example Requests

None

Example Responses

Status code: 200

Response to a successful request.

```
{
  "app_restrict_rule_switch" : "true"
}
```

Status Codes

Status Code	Description
200	Response to a successful request.
400	The request cannot be understood by the server due to malformed syntax.

Status Code	Description
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.1.3 Querying Default User Configurations of a Collaborative Desktop

Function

Queries default user configurations of a collaborative desktop. (This function is in the open beta test. To use it, contact the administrator.)

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/share-space/configuration

Table 4-21 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-22 Query Parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Queries default user configurations of a collaborative desktop. share-space-user-conf .

Request Parameters

Table 4-23 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-24 Response body parameters

Parameter	Type	Description
config_name	String	Configuration name.

Parameter	Type	Description
config_value	String	Configuration value, which is a JSON string. '{"share_space_name":"Collaborative space", "use_share_password": Whether to use the collaboration password: true/false, "allow_anonymous": Whether to join the collaboration anonymously: true/false, "audio_and_video": Whether to use audio,"AUDIO"/"NONE"/"AUDIO_AND_VIDEO", "keyboard_mouse_ctl": Whether keyboard and mouse operations can be performed on the desktop: true/false, "anonymous_input_ctrl": Whether to grant the keyboard and mouse input permission to anonymous users: true/false, "is_user_confirm_enabled": Whether a user response is required: true/false, "wait_confirm_time": Waiting time (30-180s)}.'

Status code: 400**Table 4-25** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401**Table 4-26** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.

Parameter	Type	Description
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-27** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-28** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-29** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.

Parameter	Type	Description
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

None

Example Responses

Status code: 200

Normal.

```
{
  "config_name" : "share-space-user-conf",
  "config_value" : "{ \"share_space_name\": \"Collaborative space\", \"use_share_password\": true,
  \"allow_anonymous\": true, \"audio_and_video\": \"AUDIO\", \"keyboard_mouse_ctl\": false,
  \"anonymous_input_ctrl\": false, \"is_user_confirm_enabled\": false, \"wait_confirm_time\": 30 }"
```

Status Codes

Status Code	Description
200	Normal.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
500	An internal service error occurred. For details, see the error code description.

Error Codes

See [Error Codes](#).

4.1.4 Setting Default User Configurations of a Collaborative Desktop

Function

Sets default user configurations of a collaborative desktop. (This function is in the open beta test. To use it, contact the administrator.)

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT /v2/{project_id}/share-space/configuration

Table 4-30 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-31 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 4-32 Request body parameters

Parameter	Mandatory	Type	Description
config_name	No	String	Configuration name.

Parameter	Mandatory	Type	Description
config_value	No	String	Configuration value, which is a JSON string. '{"share_space_name":"Collaborative space", "use_share_password": Whether to use the collaboration password: true/ false, "allow_anonymous": Whether to join the collaboration anonymously: true/false, "audio_and_video": Whether to use audio,"AUDIO"/"NONE"/"AUDIO_AND_VIDEO", "keyboard_mouse_ctl": Whether keyboard and mouse operations can be performed on the desktop: true/ false,"anonymous_input_ctl": Whether to grant the keyboard and mouse input permission to anonymous users: true/false, "is_user_confirm_enabled": Whether a user response is required: true/ false,"wait_confirm_time": Waiting time (30-180s)}.'

Response Parameters

Status code: 204

Normal.

Status code: 400

Table 4-33 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401**Table 4-34** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-35** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-36** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500

Table 4-37 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
PUT /v2/8a2c3f8e71ed17c60171ed1fbf340000/share-space/configuration
```

```
{
  "config_name": "xxx"
}
```

Example Responses

None

Status Codes

Status Code	Description
204	Normal.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
500	An internal service error occurred. For details, see the error code description.

Error Codes

See [Error Codes](#).

4.1.5 Querying Authentication-based Login Modes

Function

Queries the configuration of an authentication-based login mode.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/auth-config/method-config

Table 4-38 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-39 Query Parameters

Parameter	Mandatory	Type	Description
auth_type	No	String	Authentication method. LOCAL_PASSWORD : local password authentication; KERBEROS : Windows AD authentication; LDAP : third-party LDAP authentication; CLIENT_TOKEN : token authentication of the Golden Auditing UKEY client; OAUTH2 : third-party SSO authentication

Request Parameters

Table 4-40 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API that is used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body.

Response Parameters

Status code: 200

Table 4-41 Response body parameters

Parameter	Type	Description
auth_type	String	Authentication type. LOCAL_PASSWORD : local password authentication KERBEROS : Windows AD authentication LDAP : third-party LDAP authentication CLIENT_TOKEN : Ukey client token authentication OAUTH2 : third-party SSO authentication
enable	Boolean	Status.
radius_gateway_config	RadiusGatewayConfigInfo object	SMS auxiliary authentication configuration.
third_party_auth_config	Array of ThirdPartyAuthConfig objects	Third-party authentication API configuration information.
emergency_login_mode	String	Emergency login mode.

Table 4-42 RadiusGatewayConfigInfo

Parameter	Type	Description
enable	Boolean	Enabled or not.
app_id	String	Username.
cert_domain_name	String	Certificate domain name.
token_url	String	URL for obtaining the token.
verification_cipher_url	String	URL for obtaining the verification code.
auth_type	String	Authentication type.
assist_auth_type	String	Auxiliary authentication type.
expiration	String	Expiration time.

Table 4-43 ThirdPartyAuthConfig

Parameter	Type	Description
update_type	String	Updates the authentication configuration type. This parameter is used when the authentication type is third-party SSO authentication.
enable	Boolean	Enabled or not.
update_object	String	Updates the object that uses the authentication configuration. This parameter is used when the authentication type is third-party SSO authentication.
auth_type	String	Authentication type.
client_interface_config	InterfacesConfig object	Interface configuration.
server_interface_config	InterfacesConfig object	Interface configuration.
third_password_update_type	String	Updates the authentication configuration type. This parameter is used when the authentication type is third-party password authentication. ADD : adding; UPDATE : modifying; DELETE : deleting
custom_definition	String	Custom interface configuration.
oauth_configs	String	OAuth 2.0 configuration.
ldap_configs	Array of LdapConfig objects	SSO configuration information list.
third_password_name	String	Updates the object that uses the authentication configuration. This parameter is used when the authentication type is third-party password authentication.

Table 4-44 InterfacesConfig

Parameter	Type	Description
apply_platform	String	Application platform.
id	String	ID.
name	String	Name.

Parameter	Type	Description
type	String	Type.
results	Map<String,String>	Result.
pagination	Map<String,Object>	Pagination information.
request	InterfacesRequest object	API Request.
response	String	Response.
result_check	String	Check result.

Table 4-45 InterfacesRequest

Parameter	Type	Description
method	String	Method.
params	Map<String,String>	Request parameter.
headers	Map<String,String>	Request header information.
body	String	Request body.
url	String	URL.
configs	Map<String,Object>	Configuration.

Table 4-46 LdapConfig

Parameter	Type	Description
host	String	Host.
port	Integer	Port number. The value ranges from 1 to 65535. The default value is 389.
base_dn	String	base_dn .
administrator_dn	String	Administrator DN.
administrator_password	String	Administrator password.
user_dn	String	User DN.

Parameter	Type	Description
use_ssl	Boolean	Whether to enable SSL.
cert_content	String	Certificate.
username_attribute	String	Username attribute.
object_class	String	User object class.
security_type	String	Security type.

Status code: 400**Table 4-47** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401**Table 4-48** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403

Table 4-49 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-50** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-51** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
GET /v2/29dfe82ada564ac2b927e1ff036d9a9b/auth-config/method-config
```

Example Responses**Status code: 200**

Response to the request for querying authentication-based login modes.

```
{
  "enable" : true
}
```

Status Codes

Status Code	Description
200	Response to the request for querying authentication-based login modes.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
500	An internal service error occurred. For details, see the error code description.

Error Codes

See [Error Codes](#).

4.1.6 Updating the Authentication Policy Configuration

Function

Updates the authentication policy configuration.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT /v2/{project_id}/auth-config/method-config

Table 4-52 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-53 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API that is used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body.

Table 4-54 Request body parameters

Parameter	Mandatory	Type	Description
auth_type	No	String	Authentication type. RADIUS_GATEWAY : SMS auxiliary authentication OAuth2 : OAuth 2.0 authentication CLIENT_TOKEN : local token authentication USER_PASSWORD : password authentication
radius_gateway_config	No	RadiusGatewayConfig object	SMS auxiliary authentication configuration.
third_party_authentication_config	No	ThirdPartyAuthConfig object	Third-party authentication configuration information.
emergency_login_mode	No	String	Emergency login mode.

Table 4-55 RadiusGatewayConfig

Parameter	Mandatory	Type	Description
enable	No	Boolean	Enabled or not.
app_id	No	String	Username.

Parameter	Mandatory	Type	Description
password	No	String	Password.
token_url	No	String	URL for obtaining the token.
verification_ciper_url	No	String	URL for obtaining the verification code.
cert_content	No	String	Certificate content (PEM).

Table 4-56 ThirdPartyAuthConfig

Parameter	Mandatory	Type	Description
update_type	No	String	Updates the authentication configuration type. This parameter is used when the authentication type is third-party SSO authentication.
enable	No	Boolean	Enabled or not.
update_object	No	String	Updates the object that uses the authentication configuration. This parameter is used when the authentication type is third-party SSO authentication.
auth_type	No	String	Authentication type.
client_interface_config	No	InterfacesConfig object	Interface configuration.
server_interface_config	No	InterfacesConfig object	Interface configuration.
third_password_update_type	No	String	Updates the authentication configuration type. This parameter is used when the authentication type is third-party password authentication. ADD : adding; UPDATE : modifying; DELETE : deleting
custom_definition	No	String	Custom interface configuration.
oauth_configs	No	String	OAuth 2.0 configuration.

Parameter	Mandatory	Type	Description
ldap_configs	No	Array of LdapConfig objects	SSO configuration information list.
third_password_name	No	String	Updates the object that uses the authentication configuration. This parameter is used when the authentication type is third-party password authentication.

Table 4-57 InterfacesConfig

Parameter	Mandatory	Type	Description
apply_platform	No	String	Application platform.
id	No	String	ID.
name	No	String	Name.
type	No	String	Type.
results	No	Map<String,String>	Result.
pagination	No	Map<String,Object>	Pagination information.
request	No	InterfacesRequest object	API Request.
response	No	String	Response.
result_check	No	String	Check result.

Table 4-58 InterfacesRequest

Parameter	Mandatory	Type	Description
method	No	String	Method.
params	No	Map<String,String>	Request parameter.
headers	No	Map<String,String>	Request header information.
body	No	String	Request body.

Parameter	Mandatory	Type	Description
url	No	String	URL.
configs	No	Map<String, Object>	Configuration.

Table 4-59 LdapConfig

Parameter	Mandatory	Type	Description
host	No	String	Host.
port	No	Integer	Port number. The value ranges from 1 to 65535. The default value is 389.
base_dn	No	String	base_dn .
administrator_dn	No	String	Administrator DN.
administrator_password	No	String	Administrator password.
user_dn	No	String	User DN.
use_ssl	No	Boolean	Whether to enable SSL.
cert_content	No	String	Certificate.
username_attribute	No	String	Username attribute.
object_class	No	String	User object class.
security_type	No	String	Security type.

Response Parameters

Status code: 200

Table 4-60 Response body parameters

Parameter	Type	Description
project_id	String	Project ID.

Status code: 400

Table 4-61 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401**Table 4-62** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-63** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404

Table 4-64 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-65** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
PUT /v2/fb2e5ec048384c8f9469d22db0037908/auth-config/method-config
```

```
{
  "auth_type": "RADIUS_GATEWAY",
  "radius_gateway_config": {
    "enable": true,
    "app_id": "sms3d356sd4f1s3e",
    "password": 123456,
    "token_url": "www.xxx-token.com",
    "verification_cipher_url": "www.xxx-sms.com",
    "cert_content": "cert_content"
  }
}
```

Example Responses

Status code: 200

Response to the request for updating the authentication policy configuration.

```
{
  "project_id": "0e575d8e1a00f4742f70c00589a0ebdc"
}
```

Status Codes

Status Code	Description
200	Response to the request for updating the authentication policy configuration.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
500	An internal service error occurred. For details, see the error code description.

Error Codes

See [Error Codes](#).

4.1.7 Queries the configuration of auxiliary authentication

Function

Queries auxiliary authentication configurations.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/assist-auth-config/method-config

Table 4-66 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-67 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API that is used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body.

Response Parameters

Status code: 200

Table 4-68 Response body parameters

Parameter	Type	Description
otp_config_info	OtpConfigInfo object	OTP-assisted authentication configuration.

Table 4-69 OtpConfigInfo

Parameter	Type	Description
enable	Boolean	Enabled or not.
receive_mode	String	Verification code receiving mode. VMFA: virtual MFA device HMFA: hardware MFA device
auth_url	String	Auxiliary authentication server address.
app_id	String	Account for accessing the authentication service.
app_secret	String	Password for accessing the authentication service.

Parameter	Type	Description
auth_server_access_mode	String	Access mode of the auxiliary authentication service. INTERNET: access through Internet DEDICATED: access through Direct Connect SYSTEM_DEFAULT: default access mode
cert_content	String	Certificate in PEM format.
apply_rule	ApplyRuleInfo object	Information about the object to which authentication applies. If the value is null , authentication applies to all objects.

Table 4-70 ApplyRuleInfo

Parameter	Type	Description
rule_type	String	Type of the object to which authentication applies. <ul style="list-style-type: none"> ACCESS_MODE: access type
rule	String	Object to which authentication applies. <ul style="list-style-type: none"> INTERNET: Internet access. This value can be selected when rule_type is set to ACCESS_MODE. PRIVATE: private line access. This value can be selected when rule_type is set to ACCESS_MODE.

Status code: 400**Table 4-71** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401**Table 4-72** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-73** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-74** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500

Table 4-75 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
GET /v2/29dfe82ada564ac2b927e1ff036d9a9b/assist-auth-config/method-config
```

Example Responses

Status code: 200

Response to the request for querying auxiliary authentication-based login modes.

```
{
  "otp_config_info" : {
    "enable" : true,
    "receive_mode" : "VMFA"
  }
}
```

Status Codes

Status Code	Description
200	Response to the request for querying auxiliary authentication-based login modes.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	You do not have required permissions.
404	No resource found.
500	An internal service error occurred. For details about the error code, see the error code description.

Error Codes

See [Error Codes](#).

4.1.8 Updates the auxiliary authentication policy configuration

Function

Updates the auxiliary authentication policy configuration.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT /v2/{project_id}/assist-auth-config/method-config

Table 4-76 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-77 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API that is used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body.

Table 4-78 Request body parameters

Parameter	Mandatory	Type	Description
auth_type	No	String	Authentication type. OTP: OTP-assisted authentication

Parameter	Mandatory	Type	Description
otp_config_info	No	OtpConfigInfo object	OTP-assisted authentication configuration.

Table 4-79 OtpConfigInfo

Parameter	Mandatory	Type	Description
enable	No	Boolean	Enabled or not.
receive_mode	No	String	Verification code receiving mode. VMFA: virtual MFA device HMFA: hardware MFA device
auth_url	No	String	Auxiliary authentication server address.
app_id	No	String	Account for accessing the authentication service.
app_secret	No	String	Password for accessing the authentication service.
auth_server_access_mode	No	String	Access mode of the auxiliary authentication service. INTERNET: access through Internet DEDICATED: access through Direct Connect SYSTEM_DEFAULT: default access mode
cert_content	No	String	Certificate in PEM format.
apply_rule	No	ApplyRuleInfo object	Information about the object to which authentication applies. If the value is null , authentication applies to all objects.

Table 4-80 ApplyRuleInfo

Parameter	Mandatory	Type	Description
rule_type	No	String	Type of the object to which authentication applies. <ul style="list-style-type: none"> ACCESS_MODE: access type

Parameter	Mandatory	Type	Description
rule	No	String	Object to which authentication applies. <ul style="list-style-type: none"> INTERNET: Internet access. This value can be selected when rule_type is set to ACCESS_MODE. PRIVATE: private line access. This value can be selected when rule_type is set to ACCESS_MODE.

Response Parameters

Status code: 204

Normal.

Status code: 400

Table 4-81 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401

Table 4-82 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-83** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-84** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-85** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

- ```
PUT /v2/fb2e5ec048384c8f9469d22db0037908/assist-auth-config/method-config
{
 "auth_type": "OTP",
```



```

"otp_config_info" : {
 "enable" : true,
 "receive_mode" : "VMFA",
 "apply_rule" : {
 "rule_type" : "ACCESS_MODE",
 "rule" : "INTERNET"
 }
}
}

```

- PUT /v2/fb2e5ec048384c8f9469d22db0037908/assist-auth-config/method-config

```

{
 "auth_type" : "OTP",
 "otp_config_info" : {
 "enable" : true,
 "receive_mode" : "HMFA",
 "auth_url" : "https://10.0.0.128:8443/api/um/login",
 "app_id" : 123,
 "app_secret" : 123,
 "auth_server_access_mode" : "DEDICATED",
 "cert_content" : "cert_content",
 "apply_rule" : {
 "rule_type" : "ACCESS_MODE",
 "rule" : "INTERNET"
 }
 }
}
}

```

## Example Responses

None

## Status Codes

| Status Code | Description                                                                                           |
|-------------|-------------------------------------------------------------------------------------------------------|
| 204         | Normal.                                                                                               |
| 400         | The request cannot be understood by the server due to malformed syntax.                               |
| 401         | Authentication failed.                                                                                |
| 403         | You do not have required permissions.                                                                 |
| 404         | No resource found.                                                                                    |
| 500         | An internal service error occurred. For details about the error code, see the error code description. |

## Error Codes

See [Error Codes](#).

## 4.1.9 Modifying the Backup Configuration of a Workspace Access Address

### Function

Modifies the backup configuration of a Workspace access address.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

POST /v2/{project\_id}/access-config/address-backup

**Table 4-86** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

### Request Parameters

**Table 4-87** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                         |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |

**Table 4-88** Request body parameters

| Parameter     | Mandatory | Type                                               | Description                |
|---------------|-----------|----------------------------------------------------|----------------------------|
| access_config | No        | Array of <a href="#">AccessConfig Info</a> objects | Access configuration list. |

**Table 4-89** AccessConfigInfo

| Parameter   | Mandatory | Type                               | Description                                                                                                                       |
|-------------|-----------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| site_id     | Yes       | String                             | Site ID.                                                                                                                          |
| backup_mode | Yes       | String                             | Whether backup is enabled. <ul style="list-style-type: none"> <li>● <b>ON</b>: enabled</li> <li>● <b>OFF</b>: disabled</li> </ul> |
| backup_info | No        | Array of <b>BackupInfo</b> objects | Backup information.                                                                                                               |

**Table 4-90** BackupInfo

| Parameter      | Mandatory | Type    | Description                                                                            |
|----------------|-----------|---------|----------------------------------------------------------------------------------------|
| priority       | Yes       | Integer | Priority. A smaller value indicates a higher priority. The value ranges from 1 to 255. |
| address        | Yes       | String  | Backup access address.                                                                 |
| address_custom | No        | String  | Tenant-defined backup access address.                                                  |

## Response Parameters

### Status code: 204

Normal, no response body.

### Status code: 400

**Table 4-91** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

### Status code: 401

**Table 4-92** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-93** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-94** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Example Requests**

```
{
 "access_config": [{
 "site_id": "string",
 "backup_mode": "string",
 "backup_info": [{
 "priority": 255,
 "address": "string",
```

```

 "address_custom" : "string"
 }]
}]
}

```

## Example Responses

None

## Status Codes

| Status Code | Description                                                                      |
|-------------|----------------------------------------------------------------------------------|
| 204         | Normal, no response body.                                                        |
| 400         | The request cannot be understood by the server due to malformed syntax.          |
| 401         | Authentication failed.                                                           |
| 403         | No operation permissions.                                                        |
| 500         | An internal service error occurred. For details, see the error code description. |

## Error Codes

See [Error Codes](#).

## 4.1.10 Obtaining the Backup Configuration of a Workspace Access Address

### Function

Obtains the backup configuration of a Workspace access address.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

GET /v2/{project\_id}/access-config/address-backup

**Table 4-95** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

## Request Parameters

**Table 4-96** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                         |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |

## Response Parameters

**Status code: 200**

**Table 4-97** Response body parameters

| Parameter     | Type                                              | Description                |
|---------------|---------------------------------------------------|----------------------------|
| access_config | Array of <a href="#">AccessConfigInfo</a> objects | Access configuration list. |

**Table 4-98** AccessConfigInfo

| Parameter   | Type                                        | Description                                                                                                                   |
|-------------|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| site_id     | String                                      | Site ID.                                                                                                                      |
| backup_mode | String                                      | Whether backup is enabled. <ul style="list-style-type: none"> <li><b>ON</b>: enabled</li> <li><b>OFF</b>: disabled</li> </ul> |
| backup_info | Array of <a href="#">BackupInfo</a> objects | Backup information.                                                                                                           |

**Table 4-99** BackupInfo

| Parameter | Type    | Description                                                                            |
|-----------|---------|----------------------------------------------------------------------------------------|
| priority  | Integer | Priority. A smaller value indicates a higher priority. The value ranges from 1 to 255. |
| address   | String  | Backup access address.                                                                 |

| Parameter      | Type   | Description                           |
|----------------|--------|---------------------------------------|
| address_custom | String | Tenant-defined backup access address. |

**Status code: 400****Table 4-100** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-101** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-102** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-103** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Example Requests**

None

**Example Responses****Status code: 200**

Response to the request for obtaining the backup configuration of a Workspace access address.

```
{
 "access_config": [{
 "site_id": "string",
 "backup_mode": "string",
 "backup_info": [{
 "priority": 255,
 "address": "string",
 "address_custom": "string"
 }]
 }]
}
```

**Status Codes**

| Status Code | Description                                                                                   |
|-------------|-----------------------------------------------------------------------------------------------|
| 200         | Response to the request for obtaining the backup configuration of a Workspace access address. |
| 400         | The request cannot be understood by the server due to malformed syntax.                       |
| 401         | Authentication failed.                                                                        |
| 403         | No operation permissions.                                                                     |
| 500         | An internal service error occurred. For details, see the error code description.              |



## Error Codes

See [Error Codes](#).

## 4.1.11 Querying Custom Tenant Configurations

### Function

Queries custom tenant configurations.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

GET /v2/{project\_id}/tenant-configs

**Table 4-104** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

**Table 4-105** Query Parameters

| Parameter | Mandatory | Type   | Description  |
|-----------|-----------|--------|--------------|
| name      | No        | String | Switch name. |

### Request Parameters

**Table 4-106** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                         |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | Yes       | String | MIME type of the request body.                                                                                                                                      |

## Response Parameters

**Status code: 200**

**Table 4-107** Response body parameters

| Parameter        | Type                                   | Description                       |
|------------------|----------------------------------------|-----------------------------------|
| function_configs | Array of <b>FunctionConfig</b> objects | Custom tenant configuration list. |

**Table 4-108** FunctionConfig

| Parameter | Type                              | Description                                                                                        |
|-----------|-----------------------------------|----------------------------------------------------------------------------------------------------|
| id        | String                            | Function configuration ID.                                                                         |
| name      | String                            | Function configuration name.                                                                       |
| status    | String                            | Status of the function configuration switch. Options: - <b>ON</b> : enabled; <b>OFF</b> : disabled |
| values    | Array of <b>MapObject</b> objects | Configuration item list, in key-value pair format.                                                 |

**Table 4-109** MapObject

| Parameter | Type   | Description                    |
|-----------|--------|--------------------------------|
| key       | String | Key of a configuration item.   |
| value     | String | Value of a configuration item. |

**Status code: 400**

**Table 4-110** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-111** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-112** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-113** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500**

**Table 4-114** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

## Example Requests

None

## Example Responses

**Status code: 200**

Normal.

```
{
 "function_configs": [{
 "id": "xx"
 }]
}
```

## Status Codes

| Status Code | Description                                                                      |
|-------------|----------------------------------------------------------------------------------|
| 200         | Normal.                                                                          |
| 400         | The request cannot be understood by the server due to malformed syntax.          |
| 401         | Authentication failed.                                                           |
| 403         | No operation permissions.                                                        |
| 404         | No resources found.                                                              |
| 500         | An internal service error occurred. For details, see the error code description. |

## Error Codes

See [Error Codes](#).

## 4.1.12 Modifying a Custom Tenant Configuration

### Function

Modifies a custom tenant configuration.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

PUT /v2/{project\_id}/tenant-configs

**Table 4-115** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

### Request Parameters

**Table 4-116** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                         |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | Yes       | String | MIME type of the request body.                                                                                                                                      |

**Table 4-117** Request body parameters

| Parameter       | Mandatory | Type                                  | Description                  |
|-----------------|-----------|---------------------------------------|------------------------------|
| function_config | No        | <a href="#">FunctionConfig</a> object | Custom tenant configuration. |

**Table 4-118** FunctionConfig

| Parameter | Mandatory | Type                              | Description                                                                                           |
|-----------|-----------|-----------------------------------|-------------------------------------------------------------------------------------------------------|
| id        | No        | String                            | Function configuration ID.                                                                            |
| name      | No        | String                            | Function configuration name.                                                                          |
| status    | No        | String                            | Status of the function configuration switch. Options:<br>- <b>ON</b> : enabled; <b>OFF</b> : disabled |
| values    | No        | Array of <b>MapObject</b> objects | Configuration item list, in key-value pair format.                                                    |

**Table 4-119** MapObject

| Parameter | Mandatory | Type   | Description                    |
|-----------|-----------|--------|--------------------------------|
| key       | No        | String | Key of a configuration item.   |
| value     | No        | String | Value of a configuration item. |

## Response Parameters

### Status code: 204

Normal.

### Status code: 400

**Table 4-120** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

### Status code: 401

**Table 4-121** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-122** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-123** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500**

**Table 4-124** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

## Example Requests

```
{
 "function_config" : {
 "id" : "xxx-xxx-xxx",
 "name" : "user_prefix",
 "status" : "ON",
 "values" : [{
 "key" : "prefix",
 "value" : "test"
 }]
 }
}
```

## Example Responses

None

## Status Codes

| Status Code | Description                                                                      |
|-------------|----------------------------------------------------------------------------------|
| 204         | Normal.                                                                          |
| 400         | The request cannot be understood by the server due to malformed syntax.          |
| 401         | Authentication failed.                                                           |
| 403         | No operation permissions.                                                        |
| 404         | No resources found.                                                              |
| 500         | An internal service error occurred. For details, see the error code description. |

## Error Codes

See [Error Codes](#).



## 4.1.13 Querying NAT Mapping Configuration Items of a Tenant

### Function

Queries NAT mapping configuration items of a tenant.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

GET /v2/{project\_id}/nat-mapping-configs

**Table 4-125** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

**Table 4-126** Query Parameters

| Parameter | Mandatory | Type   | Description |
|-----------|-----------|--------|-------------|
| site_id   | No        | String | Site ID.    |

### Request Parameters

**Table 4-127** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                         |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | Yes       | String | MIME type of the request body.                                                                                                                                      |

### Response Parameters

**Status code: 200**

**Table 4-128** Response body parameters

| Parameter    | Type                                              | Description                    |
|--------------|---------------------------------------------------|--------------------------------|
| site_id      | String                                            | Site ID.                       |
| nat_on       | Boolean                                           | Whether to enable NAT mapping. |
| vag_ips      | Array of strings                                  | vAG IP addresses.              |
| nat_vag_maps | Array of <a href="#">NatMappingConfig</a> objects | NAT mapping configurations.    |

**Table 4-129** NatMappingConfig

| Parameter             | Type                                 | Description                                                                                                                                                  |
|-----------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| nat_map_type          | String                               | NAT mapping type. <ul style="list-style-type: none"> <li><b>PORT</b>: port mapping</li> <li><b>HOST</b>: address mapping</li> </ul>                          |
| nat_map_value         | String                               | If <b>nat_map_type</b> is set to <b>PORT</b> , the value is 9443 or 9445.<br>If <b>nat_map_type</b> is set to <b>HOST</b> , the value is the access address. |
| nat_ip                | String                               | NAT IP address.                                                                                                                                              |
| nat_port              | String                               | NAT port.                                                                                                                                                    |
| vag_ip                | String                               | vAG IP address.                                                                                                                                              |
| vag_port              | String                               | vAG port.                                                                                                                                                    |
| access_filter_type    | Integer                              | Whether the management of tags and enterprise projects is supported. <b>0</b> : disabled; <b>1</b> : enabled                                                 |
| enterprise_project_id | String                               | Enterprise project ID.                                                                                                                                       |
| tags                  | Array of <a href="#">Tag</a> objects | Tag object.                                                                                                                                                  |

**Table 4-130** Tag

| Parameter | Type   | Description                                                                                                                                                                                                                                         |
|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| key       | String | Key of a tag, which cannot be empty and can contain a maximum of 128 Unicode characters. A key can contain letters, digits, spaces, and special characters ( <code>_.:=-@</code> ), but cannot start or end with a space or start with <b>sys</b> . |
| value     | String | Value of a tag, which can contain a maximum of 43 Unicode characters. A value can contain letters, digits, spaces, and special characters ( <code>_.:=-@</code> ), but cannot start or end with a space.                                            |

**Status code: 400****Table 4-131** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-132** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403**

**Table 4-133** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-134** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-135** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Example Requests**

```
GET /v2/fb2e5ec048384c8f9469d22db0037908/nat-mapping-configs
```

**Example Responses****Status code: 200**

Response to the request for querying NAT mapping configuration items of a tenant.

```
{
 "site_id" : "0e2dae94-23ff-449a-bb9c-1b808cf2106d"
}
```

## Status Codes

| Status Code | Description                                                                       |
|-------------|-----------------------------------------------------------------------------------|
| 200         | Response to the request for querying NAT mapping configuration items of a tenant. |
| 400         | The request cannot be understood by the server due to malformed syntax.           |
| 401         | Authentication failed.                                                            |
| 403         | No operation permissions.                                                         |
| 404         | No resources found.                                                               |
| 500         | An internal service error occurred. For details, see the error code description.  |

## Error Codes

See [Error Codes](#).

### 4.1.14 Modifying NAT Mapping Configuration Items of a Tenant

#### Function

Modifies NAT mapping configuration items of a tenant.

#### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

#### URI

PUT /v2/{project\_id}/nat-mapping-configs

**Table 4-136** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

## Request Parameters

**Table 4-137** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                         |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | Yes       | String | MIME type of the request body.                                                                                                                                      |

**Table 4-138** Request body parameters

| Parameter    | Mandatory | Type                                                    | Description                    |
|--------------|-----------|---------------------------------------------------------|--------------------------------|
| site_id      | No        | String                                                  | Site ID.                       |
| nat_on       | No        | Boolean                                                 | Whether to enable NAT mapping. |
| nat_vag_maps | No        | Array of <a href="#">UpdateNatMappingConfig</a> objects | NAT mapping configurations.    |

**Table 4-139** UpdateNatMappingConfig

| Parameter     | Mandatory | Type   | Description                                                                                                                                                                 |
|---------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| nat_map_type  | No        | String | NAT mapping type. <ul style="list-style-type: none"> <li><b>PORT</b>: port mapping</li> <li><b>HOST</b>: address mapping, allowing for a maximum of 10 addresses</li> </ul> |
| nat_map_value | No        | String | If <b>nat_map_type</b> is set to <b>PORT</b> , the value is 9443 or 9445.<br>If <b>nat_map_type</b> is set to <b>HOST</b> , the value is the access address.                |
| nat_ip        | No        | String | NAT IP address.                                                                                                                                                             |

| Parameter             | Mandatory | Type    | Description                                                                                                  |
|-----------------------|-----------|---------|--------------------------------------------------------------------------------------------------------------|
| nat_port              | No        | String  | NAT port. The value ranges from 0 to 65535.                                                                  |
| vag_ip                | No        | String  | vAG IP address.                                                                                              |
| access_filter_type    | No        | Integer | Whether the management of tags and enterprise projects is supported. <b>0</b> : disabled; <b>1</b> : enabled |
| enterprise_project_id | No        | String  | Enterprise project ID.                                                                                       |

## Response Parameters

### Status code: 204

Response to the request for modifying NAT mapping configuration items of a tenant.

### Status code: 400

**Table 4-140** Response body parameters

| Parameter                     | Type   | Description                                                                                                                      |
|-------------------------------|--------|----------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                      |
| error_msg                     | String | Error description.                                                                                                               |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorizati-on-message</b> of STS to decrypt the reason. |

### Status code: 401

**Table 4-141** Response body parameters

| Parameter                     | Type   | Description                                                                                                                      |
|-------------------------------|--------|----------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                      |
| error_msg                     | String | Error description.                                                                                                               |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorizati-on-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-142** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-143** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-144** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Example Requests**

```
PUT /v2/fb2e5ec048384c8f9469d22db0037908/nat-mapping-configs
{
 "nat_on" : true,
```



```

"nat_vag_maps" : [{
 "nat_ip" : "0.0.0.0",
 "nat_port" : 0,
 "vag_ip" : "10.0.0.9"
}]
}

```

## Example Responses

None

## Status Codes

| Status Code | Description                                                                        |
|-------------|------------------------------------------------------------------------------------|
| 204         | Response to the request for modifying NAT mapping configuration items of a tenant. |
| 400         | The request cannot be understood by the server due to malformed syntax.            |
| 401         | Authentication failed.                                                             |
| 403         | No operation permissions.                                                          |
| 404         | No resources found.                                                                |
| 500         | An internal service error occurred. For details, see the error code description.   |

## Error Codes

See [Error Codes](#).

# 4.2 Huawei Cloud Workspace

## 4.2.1 Querying Site Information

### Function

Queries site information.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

GET /v2/{project\_id}/sites

**Table 4-145** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

**Table 4-146** Query Parameters

| Parameter            | Mandatory | Type   | Description                                               |
|----------------------|-----------|--------|-----------------------------------------------------------|
| availability_zone_id | No        | String | AZ.                                                       |
| site_type            | No        | String | Site type. The value can be <b>CENTER</b> or <b>IES</b> . |

## Request Parameters

**Table 4-147** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                         |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | Yes       | String | MIME type of the request body.                                                                                                                                      |

## Response Parameters

**Status code: 200**

**Table 4-148** Response body parameters

| Parameter   | Type                                      | Description            |
|-------------|-------------------------------------------|------------------------|
| site_infos  | Array of <a href="#">SiteInfo</a> objects | Site information list. |
| total_count | Integer                                   | Total number of sites. |

**Table 4-149** SiteInfo

| Parameter   | Type   | Description                                                                                                                                               |
|-------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| site_id     | String | Site ID.                                                                                                                                                  |
| site_name   | String | Site name.                                                                                                                                                |
| site_type   | String | Configuration status. <ul style="list-style-type: none"> <li>● <b>CENTER</b>: center initialization</li> <li>● <b>IES</b>: edge initialization</li> </ul> |
| project_id  | String | Project ID.                                                                                                                                               |
| status      | String | Site status.                                                                                                                                              |
| create_time | String | Creation time.                                                                                                                                            |

**Status code: 400****Table 4-150** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-151** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403**

**Table 4-152** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-153** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-154** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 503**

**Table 4-155** Response body parameters

| Parameter                     | Type   | Description                                                                                                                      |
|-------------------------------|--------|----------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                      |
| error_msg                     | String | Error description.                                                                                                               |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorizati-on-message</b> of STS to decrypt the reason. |

## Example Requests

```
GET /v2/fb2e5ec048384c8f9469d22db0037908/sites
```

## Example Responses

**Status code: 200**

Queries site information.

```
{
 "site_infos" : [{
 "site_id" : "22033f05-b7e1-44c4-a45f-630aa8acc42c",
 "site_name" : "Huawei Cloud Central Site",
 "az_code" : "cn-north-7a,cn-north-7b,cn-north-7c",
 "site_type" : "CENTER",
 "project_id" : "902b906e372241fe9b4e2e7280d64613",
 "status" : "openSuccess"
 }]
}
```

## Status Codes

| Status Code | Description                                                                      |
|-------------|----------------------------------------------------------------------------------|
| 200         | Queries site information.                                                        |
| 400         | The request cannot be understood by the server due to malformed syntax.          |
| 401         | Authentication failed.                                                           |
| 403         | No operation permissions.                                                        |
| 404         | No resources found.                                                              |
| 500         | An internal service error occurred. For details, see the error code description. |
| 503         | Service unavailable.                                                             |

## Error Codes

See [Error Codes](#).

## 4.2.2 Adding a Site

### Function

Queries site information.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

POST /v2/{project\_id}/sites

**Table 4-156** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

### Request Parameters

**Table 4-157** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                         |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | Yes       | String | MIME type of the request body.                                                                                                                                      |

**Table 4-158** Request body parameters

| Parameter    | Mandatory | Type                                                | Description                     |
|--------------|-----------|-----------------------------------------------------|---------------------------------|
| site_configs | Yes       | Array of <a href="#">SiteConfigsRequest</a> objects | Site configuration information. |

**Table 4-159** SiteConfigsRequest

| Parameter         | Mandatory | Type                           | Description                                   |
|-------------------|-----------|--------------------------------|-----------------------------------------------|
| availability_zone | No        | String                         | AZ used for subscribing to service resources. |
| network_config    | Yes       | <b>NetworkConfigReq</b> object | Network configuration.                        |
| access_config     | Yes       | <b>AccessConfigReq</b> object  | Access configuration.                         |

**Table 4-160** NetworkConfigReq

| Parameter  | Mandatory | Type             | Description                                 |
|------------|-----------|------------------|---------------------------------------------|
| vpc_id     | No        | String           | VPC ID.                                     |
| subnet_ids | No        | Array of strings | Network ID of the specified service subnet. |

**Table 4-161** AccessConfigReq

| Parameter       | Mandatory | Type   | Description                                                                                                                                                                                                                  |
|-----------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| access_mode     | Yes       | String | Access mode. <ul style="list-style-type: none"> <li>• <b>INTERNET</b>: access through the Internet</li> <li>• <b>DEDICATED</b>: access through Direct Connect</li> <li>• <b>BOTH</b>: both access modes supported</li> </ul> |
| dedicated_cidrs | No        | String | CIDR blocks in Direct Connect network access. Multiple CIDR blocks are separated by semicolons (;). A maximum of 5 CIDR blocks are allowed.                                                                                  |

## Response Parameters

Status code: 200

**Table 4-162** Response body parameters

| Parameter | Type   | Description                             |
|-----------|--------|-----------------------------------------|
| job_id    | String | ID of the task for initializing a site. |

**Status code: 400****Table 4-163** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-164** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-165** Response body parameters

| Parameter  | Type   | Description        |
|------------|--------|--------------------|
| error_code | String | Error code.        |
| error_msg  | String | Error description. |



| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-166** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-167** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 503****Table 4-168** Response body parameters

| Parameter  | Type   | Description        |
|------------|--------|--------------------|
| error_code | String | Error code.        |
| error_msg  | String | Error description. |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

## Example Requests

```
POST /v2/fb2e5ec048384c8f9469d22db0037908/sites
{
 "site_configs": [{
 "availability_zone": "string",
 "network_config": {
 "vpc_id": "string",
 "subnet_ids": ["string"]
 },
 "access_config": {
 "access_mode": "string",
 "dedicated_cidrs": "192.168.0.0/24;10.0.0.0/16"
 }
 }
}]
}
```

## Example Responses

**Status code: 200**

Queries site information.

```
{
 "job_id": "string"
}
```

## Status Codes

| Status Code | Description                                                                      |
|-------------|----------------------------------------------------------------------------------|
| 200         | Queries site information.                                                        |
| 400         | The request cannot be understood by the server due to malformed syntax.          |
| 401         | Authentication failed.                                                           |
| 403         | No operation permissions.                                                        |
| 404         | No resources found.                                                              |
| 500         | An internal service error occurred. For details, see the error code description. |
| 503         | Service unavailable.                                                             |

## Error Codes

See [Error Codes](#).

## 4.2.3 Deleting a Site

### Function

Deletes a site.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

DELETE /v2/{project\_id}/sites/{site\_id}

**Table 4-169** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |
| site_id    | Yes       | String | Site ID.    |

### Request Parameters

**Table 4-170** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                         |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | Yes       | String | MIME type of the request body.                                                                                                                                      |

### Response Parameters

**Status code: 200**

**Table 4-171** Response body parameters

| Parameter | Type   | Description |
|-----------|--------|-------------|
| job_id    | String | Task ID.    |

**Status code: 400****Table 4-172** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-173** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-174** Response body parameters

| Parameter  | Type   | Description        |
|------------|--------|--------------------|
| error_code | String | Error code.        |
| error_msg  | String | Error description. |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-175** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-176** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 503****Table 4-177** Response body parameters

| Parameter  | Type   | Description        |
|------------|--------|--------------------|
| error_code | String | Error code.        |
| error_msg  | String | Error description. |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

## Example Requests

```
DELETE /v2/fb2e5ec048384c8f9469d22db0037908/sites/fd5225ef-89f5-4921-9ab0-08fdbdd696fe
```

## Example Responses

**Status code: 200**

Response to the request for deleting a site.

```
{
 "job_id" : "string"
}
```

## Status Codes

| Status Code | Description                                                                      |
|-------------|----------------------------------------------------------------------------------|
| 200         | Response to the request for deleting a site.                                     |
| 400         | The request cannot be understood by the server due to malformed syntax.          |
| 401         | Authentication failed.                                                           |
| 403         | No operation permissions.                                                        |
| 404         | No resources found.                                                              |
| 500         | An internal service error occurred. For details, see the error code description. |
| 503         | Service unavailable.                                                             |

## Error Codes

See [Error Codes](#).

## 4.2.4 Changing the Site Access Mode

### Function

Changes the site access mode.

## Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

## URI

PUT /v2/{project\_id}/sites/{site\_id}/access-mode

**Table 4-178** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |
| site_id    | Yes       | String | Site ID.    |

## Request Parameters

**Table 4-179** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                         |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | Yes       | String | MIME type of the request body.                                                                                                                                      |

**Table 4-180** Request body parameters

| Parameter   | Mandatory | Type   | Description                                                                                                                                                                                                              |
|-------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| access_mode | No        | String | Access mode. <ul style="list-style-type: none"> <li>● <b>INTERNET</b>: access through Internet</li> <li>● <b>DEDICATED</b>: access through Direct Connect</li> <li>● <b>BOTH</b>: both access modes supported</li> </ul> |

| Parameter                        | Mandatory | Type                                                | Description                                                                                                                                 |
|----------------------------------|-----------|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| dedicated_cidrs                  | No        | String                                              | CIDR blocks in Direct Connect network access. Multiple CIDR blocks are separated by semicolons (;). A maximum of 5 CIDR blocks are allowed. |
| apply_shared_vpc_dedicated_param | No        | <a href="#">ApplySharedVpcDedicatedParam</a> object | Input parameter of the shared VPC Direct Connect.                                                                                           |

**Table 4-181** ApplySharedVpcDedicatedParam

| Parameter         | Mandatory | Type             | Description                                                                          |
|-------------------|-----------|------------------|--------------------------------------------------------------------------------------|
| address           | No        | String           | Shared VPC Direct Connect address specified by the tenant.                           |
| port              | No        | Integer          | Shared VPC Direct Connect address port specified by the tenant.                      |
| availability_zone | No        | Array of strings | AZ used for subscribing to service resources. By default, two AZs are randomly used. |

## Response Parameters

**Status code: 200**

**Table 4-182** Response body parameters

| Parameter | Type   | Description |
|-----------|--------|-------------|
| job_id    | String | Task ID.    |

**Status code: 400**

**Table 4-183** Response body parameters

| Parameter  | Type   | Description        |
|------------|--------|--------------------|
| error_code | String | Error code.        |
| error_msg  | String | Error description. |



| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-184** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-185** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-186** Response body parameters

| Parameter  | Type   | Description        |
|------------|--------|--------------------|
| error_code | String | Error code.        |
| error_msg  | String | Error description. |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-187** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 503****Table 4-188** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Example Requests**

```
PUT /v2/fb2e5ec048384c8f9469d22db0037908/sites/fd5225ef-89f5-4921-9ab0-08fdbdd696fe/access-mode
{
 "access_mode": "string",
 "dedicated_cidrs": "192.168.0.0/24;10.0.0.0/16",
 "apply_shared_vpc_dedicated_param": {
 "address": "string",
 "port": 65535,
 "availability_zone": ["string"]
 }
}
```

## Example Responses

### Status code: 200

Response to the request for changing the site access mode.

```
{
 "job_id" : "string"
}
```

## Status Codes

| Status Code | Description                                                                      |
|-------------|----------------------------------------------------------------------------------|
| 200         | Response to the request for changing the site access mode.                       |
| 400         | The request cannot be understood by the server due to malformed syntax.          |
| 401         | Authentication failed.                                                           |
| 403         | No operation permissions.                                                        |
| 404         | No resources found.                                                              |
| 500         | An internal service error occurred. For details, see the error code description. |
| 503         | Service unavailable.                                                             |

## Error Codes

See [Error Codes](#).

## 4.2.5 Modifying a Site Service Subnet

### Function

Modifies a site service subnet.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

PUT /v2/{project\_id}/sites/{site\_id}/subnet-ids

**Table 4-189** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |
| site_id    | Yes       | String | Site ID.    |

## Request Parameters

**Table 4-190** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                         |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | Yes       | String | MIME type of the request body.                                                                                                                                      |

**Table 4-191** Request body parameters

| Parameter       | Mandatory | Type                                  | Description                         |
|-----------------|-----------|---------------------------------------|-------------------------------------|
| subnet_ids      | No        | Array of strings                      | Service subnet ID.                  |
| vpc_config_info | No        | Array of <b>VpcConfigInfo</b> objects | VPC configuration information list. |

**Table 4-192** VpcConfigInfo

| Parameter          | Mandatory | Type             | Description                             |
|--------------------|-----------|------------------|-----------------------------------------|
| used_subnet_ids    | No        | Array of strings | Information about used subnets.         |
| vpc_id             | No        | String           | VPC ID.                                 |
| subnet_ids         | No        | Array of strings | Subnet IDs                              |
| default_access_vpc | No        | Boolean          | Whether the default access VPC is used. |

## Response Parameters

**Status code: 200**

**Table 4-193** Response body parameters

| Parameter | Type   | Description |
|-----------|--------|-------------|
| job_id    | String | Task ID.    |

**Status code: 400**

**Table 4-194** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401**

**Table 4-195** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403**

**Table 4-196** Response body parameters

| Parameter  | Type   | Description        |
|------------|--------|--------------------|
| error_code | String | Error code.        |
| error_msg  | String | Error description. |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-197** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-198** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 503****Table 4-199** Response body parameters

| Parameter  | Type   | Description        |
|------------|--------|--------------------|
| error_code | String | Error code.        |
| error_msg  | String | Error description. |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

## Example Requests

```
PUT /v2/fb2e5ec048384c8f9469d22db0037908/sites/fd5225ef-89f5-4921-9ab0-08fbd696fe/subnet-ids
{
 "subnet_ids": ["string"],
 "vpc_config_infos": [{
 "used_subnet_ids": ["string"],
 "vpc_id": "string",
 "subnet_ids": ["string"],
 "default_access_vpc": true
 }]
}
```

## Example Responses

**Status code: 200**

Response to the request for changing the site access mode.

```
{
 "job_id": "string"
}
```

## Status Codes

| Status Code | Description                                                                      |
|-------------|----------------------------------------------------------------------------------|
| 200         | Response to the request for changing the site access mode.                       |
| 400         | The request cannot be understood by the server due to malformed syntax.          |
| 401         | Authentication failed.                                                           |
| 403         | No operation permissions.                                                        |
| 404         | No resources found.                                                              |
| 500         | An internal service error occurred. For details, see the error code description. |
| 503         | Service unavailable.                                                             |

## Error Codes

See [Error Codes](#).

## 4.2.6 Querying Edge Sites

### Function

Queries edge sites.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

GET /v2/{project\_id}/wks-edge-sites

**Table 4-200** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

**Table 4-201** Query Parameters

| Parameter            | Mandatory | Type   | Description                             |
|----------------------|-----------|--------|-----------------------------------------|
| name                 | No        | String | Queries edge sites by name.             |
| availability_zone_id | No        | String | Queries by edge AZ ID.                  |
| status               | No        | String | Queries by edge site deployment status. |

### Request Parameters

**Table 4-202** Request header parameters

| Parameter    | Mandatory | Type   | Description                    |
|--------------|-----------|--------|--------------------------------|
| Content-Type | Yes       | String | MIME type of the request body. |

### Response Parameters

**Status code: 200**



**Table 4-203** Response body parameters

| Parameter      | Type                                               | Description            |
|----------------|----------------------------------------------------|------------------------|
| wks_edge_sites | Array of <a href="#">WksEdgeSiteDetail</a> objects | Edge sites.            |
| total_count    | Integer                                            | Total number of sites. |

**Table 4-204** WksEdgeSiteDetail

| Parameter            | Type                                  | Description                                                                                                                                                                                                           |
|----------------------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id                   | String                                | Edge site ID.                                                                                                                                                                                                         |
| name                 | String                                | Edge site name.                                                                                                                                                                                                       |
| description          | String                                | Edge site description.                                                                                                                                                                                                |
| availability_zone_id | String                                | AZ ID of the edge site.                                                                                                                                                                                               |
| address              | String                                | Deployment location.                                                                                                                                                                                                  |
| status               | String                                | Edge site deployment status. <ul style="list-style-type: none"> <li>• <b>initial</b>: to be deployed</li> <li>• <b>deploying</b>: being deployed</li> <li>• <b>available</b></li> <li>• <b>unavailable</b></li> </ul> |
| created_at           | String                                | Time when the edge site is created.                                                                                                                                                                                   |
| updated_at           | String                                | Time when the edge site is updated.                                                                                                                                                                                   |
| cpu_usage_rate       | Double                                | CPU usage.                                                                                                                                                                                                            |
| memory_usage_rate    | Double                                | Memory usage.                                                                                                                                                                                                         |
| capacity_usage_rate  | Double                                | Storage usage.                                                                                                                                                                                                        |
| site_info            | <a href="#">SimpleSiteInfo</a> object | Site information.                                                                                                                                                                                                     |

**Table 4-205** SimpleSiteInfo

| Parameter | Type   | Description                    |
|-----------|--------|--------------------------------|
| id        | String | ID of the Workspace edge site. |

| Parameter | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| status    | String | <p>Huawei Cloud Workspace service status.</p> <ul style="list-style-type: none"> <li>• <b>PREPARING</b>: to be subscribed</li> <li>• <b>SUBSCRIBING</b>: being subscribed</li> <li>• <b>SUBSCRIBED</b>: subscribed</li> <li>• <b>SUBSCRIPTION_FAILED</b>: subscription failed</li> <li>• <b>DEREGISTERING</b>: being unsubscribed</li> <li>• <b>DEREGISTRATION_FAILED</b>: unsubscription failed</li> <li>• <b>CLOSED</b>: unsubscribed and not subscribed yet</li> </ul> |

**Status code: 400****Table 4-206** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-207** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403**

**Table 4-208** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-209** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-210** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 503**

**Table 4-211** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

## Example Requests

```
GET /v2/fb2e5ec048384c8f9469d22db0037908/wks-edge-sites
```

## Example Responses

**Status code: 200**

Response to the request for querying edge sites.

```
{
 "wks_edge_sites" : [{
 "id" : "string",
 "name" : "string",
 "description" : "string",
 "availability_zone_id" : "string",
 "address" : "string",
 "status" : "string",
 "created_at" : "string",
 "updated_at" : "string",
 "cpu_usage_rate" : 0,
 "memory_usage_rate" : 0,
 "capacity_usage_rate" : 0,
 "site_info" : {
 "id" : "string",
 "status" : "string"
 }
 }],
 "total_count" : 0
}
```

## Status Codes

| Status Code | Description                                                             |
|-------------|-------------------------------------------------------------------------|
| 200         | Response to the request for querying edge sites.                        |
| 400         | The request cannot be understood by the server due to malformed syntax. |
| 401         | Authentication failed.                                                  |
| 403         | No operation permissions.                                               |
| 404         | No resources found.                                                     |

| Status Code | Description                                                                      |
|-------------|----------------------------------------------------------------------------------|
| 500         | An internal service error occurred. For details, see the error code description. |
| 503         | Service unavailable.                                                             |

## Error Codes

See [Error Codes](#).

## 4.2.7 Queries Huawei Cloud Workspace details

### Function

Queries Huawei Cloud Workspace details.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

GET /v2/{project\_id}/workspaces

**Table 4-212** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

### Request Parameters

**Table 4-213** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                 |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API that is used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |

| Parameter    | Mandatory | Type   | Description                    |
|--------------|-----------|--------|--------------------------------|
| Content-Type | Yes       | String | MIME type of the request body. |

## Response Parameters

Status code: 200

Table 4-214 Response body parameters

| Parameter                | Type                          | Description                                                                                                                                                                                                      |
|--------------------------|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id                       | String                        | Unique ID.                                                                                                                                                                                                       |
| is_global                | Boolean                       | Whether the enabled service is a global service.                                                                                                                                                                 |
| ad_domains               | <a href="#">AdInfo</a> object | Domain information.                                                                                                                                                                                              |
| vpc_id                   | String                        | VPC ID.                                                                                                                                                                                                          |
| vpc_name                 | String                        | VPC name.                                                                                                                                                                                                        |
| access_mode              | String                        | Access mode. <ul style="list-style-type: none"> <li>INTERNET: access through Internet</li> <li>DEDICATED: access through Direct Connect</li> <li>DEDICATED: access through Internet or Direct Connect</li> </ul> |
| adn_conflict_network     | String                        | Conflicted CIDR blocks in ADN network access. Multiple CIDR blocks are separated by semicolons (;). A maximum of 50 CIDR blocks are allowed.                                                                     |
| dedicated_subnets        | String                        | Direct Connect access CIDR. This parameter is returned only when <b>access_mode</b> is set to <b>DEDICATED</b> or <b>BOTH</b> .                                                                                  |
| dedicated_access_address | String                        | Direct Connect access address. This parameter is returned only when <b>access_mode</b> is set to <b>DEDICATED</b> or <b>BOTH</b> .                                                                               |
| internet_access_address  | String                        | Internet access address. This parameter is returned only when <b>access_mode</b> is set to <b>INTERNET</b> or <b>BOTH</b> .                                                                                      |

| Parameter            | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| internet_access_port | String | Internet access port.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| status               | String | <p>Huawei Cloud Workspace service status.</p> <ul style="list-style-type: none"><li>● PREPARING: The service is ready for subscription.</li><li>● SUBSCRIBING: The service is being subscribed.</li><li>● SUBSCRIBED: The service has been subscribed.</li><li>● SUBSCRIPTION_FAILED: The service cannot be subscribed.</li><li>● DEREGISTERING: The service is being unsubscribed.</li><li>● DEREGISTRATION_FAILED: The service cannot be unsubscribed.</li><li>● CLOSED: The service has been unsubscribed and is not subscribed.</li></ul> |

| Parameter              | Type                                           | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| access_status          | String                                         | <p>Status of the task for switching between the Internet and Direct Connect.</p> <ul style="list-style-type: none"> <li>• init: initial status after the service is enabled.</li> <li>• available: The task has been successfully executed and is restored to the normal state.</li> <li>• internetOpening: Internet access is being enabled.</li> <li>• dedicatedOpening: indicates that Direct Connect is being enabled.</li> <li>• internetOpenFailed: Failed to enable Internet access.</li> <li>• dedicatedOpenFailed: Failed to enable Direct Connect.</li> <li>• openSuccess: The access mode is successfully enabled.</li> <li>• internetClosing: Internet access is being disabled.</li> <li>• dedicatedClosing: The private line is being disabled.</li> <li>• internetCloseFailed: Failed to disable the Internet access mode.</li> <li>• dedicatedCloseFailed: Failed to disable the private line access mode.</li> <li>• closeSuccess: The access mode is successfully disabled.</li> <li>• internetAccessPortModifying: The Internet access port is being changed.</li> <li>• internetAccessPortModifyFailed: The port fails to be changed.</li> </ul> |
| subnet_ids             | Array of <a href="#">SubnetInfo</a> objects    | Service subnet. You can specify the returned network ID to subscribe to a desktop.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| vpc_config_infos       | Array of <a href="#">VpcConfigInfo</a> objects | VPC configuration information list.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| management_subnet_cidr | String                                         | Subnet CIDR of the management component.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |



| Parameter                     | Type                                                 | Description                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| infrastructure_security_group | <a href="#">SecurityGroup</a> object                 | After the service is subscribed, a management component security group is created in the specified VPC.                                                                                                                                                                                                                                                                                                    |
| desktop_security_group        | <a href="#">SecurityGroup</a> object                 | After the service is subscribed, a desktop security group is created in the specified VPC.                                                                                                                                                                                                                                                                                                                 |
| closable                      | Boolean                                              | Whether the service can be unsubscribed.                                                                                                                                                                                                                                                                                                                                                                   |
| config_status                 | String                                               | Configuration status. <ul style="list-style-type: none"> <li>• 0: The service has been subscribed and connected to the AD.</li> <li>• 1: The service has been subscribed but the AD configuration failed.</li> <li>• 2: The service has been subscribed but other errors occurred after the AD configuration failed.</li> <li>• 3: The service has been subscribed but the AD is not connected.</li> </ul> |
| progress                      | String                                               | Progress of subscribing to or unsubscribing from the service. The value is a percentage, for example, 100%.                                                                                                                                                                                                                                                                                                |
| job_id                        | String                                               | ID of the task for subscribing to or unsubscribing from the service.                                                                                                                                                                                                                                                                                                                                       |
| fail_code                     | Integer                                              | Error code.                                                                                                                                                                                                                                                                                                                                                                                                |
| fail_reason                   | String                                               | Failure cause.                                                                                                                                                                                                                                                                                                                                                                                             |
| enterprise_id                 | String                                               | Enterprise ID.                                                                                                                                                                                                                                                                                                                                                                                             |
| enterprise_project_id         | String                                               | Enterprise project ID.                                                                                                                                                                                                                                                                                                                                                                                     |
| is_send_email                 | Boolean                                              | Whether to send a notification email upon desktop unsubscription.                                                                                                                                                                                                                                                                                                                                          |
| authorized_collect_log        | Boolean                                              | Indicates whether to authorize log collection.                                                                                                                                                                                                                                                                                                                                                             |
| authorized_hda_upgrade        | Boolean                                              | Indicates whether to authorize the hda upgrade.                                                                                                                                                                                                                                                                                                                                                            |
| site_configs                  | Array of <a href="#">SiteConfigsResponse</a> objects | Site configuration information.                                                                                                                                                                                                                                                                                                                                                                            |

| Parameter                    | Type    | Description                                                                           |
|------------------------------|---------|---------------------------------------------------------------------------------------|
| dc_vnc_ip                    | String  | User-defined Direct Connect VNC address.                                              |
| is_authorized_inst_all_agent | Boolean | Whether to grant the permission for automatic agent plug-in installation on desktops. |
| is_support_ipv6              | Boolean | Whether IPv6 is supported.                                                            |
| enable_user_create_snapshot  | Boolean | Whether to authorize end tenants to create snapshots.                                 |

Table 4-215 AdInfo

| Parameter            | Type   | Description                                                                                                              |
|----------------------|--------|--------------------------------------------------------------------------------------------------------------------------|
| domain_type          | String | Domain type. <ul style="list-style-type: none"> <li>LITE_AS: local authentication</li> <li>LOCAL_AD: local AD</li> </ul> |
| domain_name          | String | Domain name. This parameter is valid when <b>domain_type</b> is set to <b>LOCAL_AD</b> .                                 |
| domain_admin_account | String | Domain administrator account. This parameter is valid when <b>domain_type</b> is set to <b>LOCAL_AD</b> .                |
| active_domain_name   | String | Name of the primary domain controller. This parameter is valid when <b>domain_type</b> is set to <b>LOCAL_AD</b> .       |
| active_domain_ip     | String | IP address of the primary domain controller. This parameter is valid when <b>domain_type</b> is set to <b>LOCAL_AD</b> . |
| standby_domain_name  | String | Name of the backup domain controller. This parameter is valid when <b>domain_type</b> is set to <b>LOCAL_AD</b> .        |
| standby_domain_ip    | String | IP address of the backup domain controller. This parameter is valid when <b>domain_type</b> is set to <b>LOCAL_AD</b> .  |
| active_dns_ip        | String | IP address of the primary DNS server. This parameter is valid when <b>domain_type</b> is set to <b>LOCAL_AD</b> .        |

| Parameter              | Type                    | Description                                                                                                                                                                                                              |
|------------------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| standby_dns_ip         | String                  | IP address of the standby DNS server. This parameter is valid when <b>domain_type</b> is set to <b>LOCAL_AD</b> .                                                                                                        |
| delete_computer_object | String                  | Whether to delete the corresponding computer object from the AD when deleting the desktop. The value 0 indicates that the computer object is not deleted, and the value 1 indicates that the computer object is deleted. |
| use_ldaps              | Boolean                 | Whether to enable LDAPS.                                                                                                                                                                                                 |
| tls_config             | <b>TlsConfig</b> object | TLS information.                                                                                                                                                                                                         |

**Table 4-216** TlsConfig

| Parameter       | Type   | Description                                                                                            |
|-----------------|--------|--------------------------------------------------------------------------------------------------------|
| cert_pem        | String | PEM content. If the content exists, update it. Otherwise, upload it. The query result is not returned. |
| cert_start_time | String | Time when the certificate starts to take effect, for example, 2022-01-25T09:24:27.                     |
| cert_end_time   | String | Time when the certificate expires, for example, 2022-01-25T09:24:27.                                   |

**Table 4-217** SubnetInfo

| Parameter | Type   | Description        |
|-----------|--------|--------------------|
| subnet_id | String | Subnet network ID. |

**Table 4-218** SiteConfigsResponse

| Parameter | Type   | Description                                                                                      |
|-----------|--------|--------------------------------------------------------------------------------------------------|
| site_id   | String | Site ID.                                                                                         |
| site_type | String | Configuration status. - <b>CENTER</b> : center initialization - <b>IES</b> : edge initialization |
| site_name | String | Site name.                                                                                       |

| Parameter     | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| status        | String | Huawei Cloud Workspace service status. - PREPARING: The service is ready for subscription. - SUBSCRIBING: The service is being subscribed. - SUBSCRIBED: The service has been subscribed. - SUBSCRIPTION_FAILED: The service cannot be subscribed. - DEREGISTERING: The service is being unsubscribed. - DEREGISTRATION_FAILED: The service cannot be unsubscribed. - CLOSED: The service has been unsubscribed and is not subscribed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| access_status | String | Status of the task for switching between the Internet and Direct Connect. - init: initial status after the service is enabled. - available: The task has been successfully executed and is restored to the normal state. - internetOpening: Internet access is being enabled. - dedicatedOpening: indicates that Direct Connect is being enabled. - internetOpenFailed: Failed to enable Internet access. - dedicatedOpenFailed: Failed to enable Direct Connect. - openSuccess: The access mode is successfully enabled. - internetClosing: Internet access is being disabled. - dedicatedClosing: The private line is being disabled. - internetCloseFailed: Failed to disable the Internet access mode. - dedicatedCloseFailed: Failed to disable the private line access mode. - closeSuccess: The access mode is successfully disabled. - internetAccessPortModifying: The Internet access port is being changed. - internetAccessPortModifyFailed: The port fails to be changed. |
| config_status | String | Configuration status. - 0: The service has been subscribed and connected to the AD. - 1: The service has been subscribed but the AD configuration failed. - 2: The service has been subscribed but other errors occurred after the AD configuration failed. - 3: The service has been subscribed but the AD is not connected.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

| Parameter                     | Type                                 | Description                                                                                             |
|-------------------------------|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| infrastructure_security_group | <a href="#">SecurityGroup</a> object | After the service is subscribed, a management component security group is created in the specified VPC. |
| desktop_security_group        | <a href="#">SecurityGroup</a> object | After the service is subscribed, a desktop security group is created in the specified VPC.              |
| availability_zones            | Array of strings                     | AZ used for subscribing to service resources.                                                           |
| job_id                        | String                               | ID of the task for subscribing to or unsubscribing from the service.                                    |
| progress                      | String                               | The progress of initializing services or cleaning up resources, formatted as 100%.                      |
| fail_code                     | Integer                              | Error code.                                                                                             |
| fail_reason                   | String                               | Failure cause.                                                                                          |
| network_config                | <a href="#">NetworkConfig</a> object | Network information.                                                                                    |
| access_config                 | <a href="#">AccessConfig</a> object  | Access information.                                                                                     |
| closable                      | Boolean                              | Whether the service can be unsubscribed.                                                                |

**Table 4-219** SecurityGroup

| Parameter | Type   | Description          |
|-----------|--------|----------------------|
| id        | String | Security group ID.   |
| name      | String | Security group name. |

**Table 4-220** NetworkConfig

| Parameter  | Type             | Description                                                                        |
|------------|------------------|------------------------------------------------------------------------------------|
| vpc_id     | String           | VPC ID.                                                                            |
| vpc_name   | String           | VPC name.                                                                          |
| subnet_ids | Array of strings | Service subnet. You can specify the returned network ID to subscribe to a desktop. |

| Parameter                 | Type                                           | Description                                                                                   |
|---------------------------|------------------------------------------------|-----------------------------------------------------------------------------------------------|
| management_subnet_cidr    | String                                         | The subnet segment occupied by the backend management component.                              |
| management_node_subnet_id | String                                         | The subnet ID occupied by the managed node among the business subnets returned by subnet_ids. |
| vpc_config_infos          | Array of <a href="#">VpcConfigInfo</a> objects | VPC configuration information list.                                                           |

**Table 4-221** VpcConfigInfo

| Parameter          | Type             | Description                             |
|--------------------|------------------|-----------------------------------------|
| used_subnet_ids    | Array of strings | Information about used subnets.         |
| vpc_id             | String           | VPC ID.                                 |
| subnet_ids         | Array of strings | Subnet IDs                              |
| default_access_vpc | Boolean          | Whether the default access VPC is used. |

**Table 4-222** AccessConfig

| Parameter                        | Type             | Description                                                                                                                                   |
|----------------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| access_mode                      | String           | Access mode. - INTERNET: access through Internet - DEDICATED: access through Direct Connect - BOTH: access through Internet or Direct Connect |
| internet_access_address          | String           | Internet access address. This parameter is returned only when <b>access_mode</b> is set to <b>INTERNET</b> or <b>BOTH</b> .                   |
| internet_access_port             | String           | Internet access port.                                                                                                                         |
| dedicated_access_address         | String           | Direct Connect access address. This parameter is returned only when <b>access_mode</b> is set to <b>DEDICATED</b> or <b>BOTH</b> .            |
| dedicated_access_standby_address | Array of strings | Dedicated line access backup address, this parameter will only be returned when the dedicated line backup route is activated.                 |

| Parameter                   | Type   | Description                                                                                                                                                                                                                          |
|-----------------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| standby_address_result_code | String | Dedicated Line Backup Line Failure Error Code.                                                                                                                                                                                       |
| dedicated_cidrs             | String | Dedicated Line Access Network Segment. The access mode includes the dedicated line method as an optional selection. Multiple network segment information should be separated by semicolons, and the list length should not exceed 5. |

**Status code: 400****Table 4-223** Response body parameters

| Parameter                     | Type   | Description                                                                                                                      |
|-------------------------------|--------|----------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                      |
| error_msg                     | String | Error description.                                                                                                               |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorizati-on-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-224** Response body parameters

| Parameter                     | Type   | Description                                                                                                                      |
|-------------------------------|--------|----------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                      |
| error_msg                     | String | Error description.                                                                                                               |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorizati-on-message</b> of STS to decrypt the reason. |

**Status code: 403**

**Table 4-225** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-226** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-227** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Example Requests**

```
GET /v2/29dfe82ada564ac2b927e1ff036d9a9b/workspaces
```

**Example Responses****Status code: 200**



Response to the request for querying Huawei Cloud Workspace details.

```
{
 "id": "8aa1908f74824d8701748bf039600065",
 "status": "SUBSCRIBED",
 "config_status": "0",
 "closable": false,
 "ad_domains": {
 "domain_type": "LOCAL_AD",
 "domain_admin_account": "vdsadmin",
 "active_domain_name": "ecs-ad.vdesktop.com",
 "active_domain_ip": "192.168.0.131",
 "standby_domain_name": "",
 "standby_domain_ip": "",
 "active_dns_ip": "192.168.0.131",
 "standby_dns_ip": "",
 "domain_name": "vdesktop.com",
 "use_ldaps": true,
 "tls_config": {
 "cert_start_time": "2022-01-25T09:24:27",
 "cert_end_time": "2023-01-25T09:34:27"
 }
 },
 "vpc_id": "fd3b4069-ac1e-45d2-ba27-4c18cd692d26",
 "vpc_name": "vpc-be75",
 "dedicated_access_address": "https://192.168.0.53",
 "dedicated_subnets": "192.168.0.0/24;10.0.0.0/16",
 "internet_access_address": "https://172.16.25.134",
 "internet_access_port": "443",
 "access_mode": "BOTH",
 "subnet_ids": [{
 "subnet_id": "5dee0216-2260-47c2-9368-98a27d910e55"
 }],
 "management_subnet_cidr": "192.168.0.0/24",
 "infrastructure_security_group": {
 "id": "ffba6eda-5170-4343-b8a3-c306e0f21c88",
 "name": "WorkspaceManagerSecurityGroup"
 },
 "desktop_security_group": {
 "id": "04abddf6-e848-4c90-bdb1-6de856fa8a34",
 "name": "WorkspaceUserSecurityGroup"
 },
 "progress": "100%",
 "access_status": "openSuccess",
 "is_send_email": true,
 "authorized_collect_log": false,
 "authorized_hda_upgrade": false,
 "vpc_config_infos": [{
 "vpc_id": "04abddf6-e848-4c90-bdb1-6de856favpc1",
 "subnet_ids": ["04abddf6-e848-4c90-bdb1-6de85subnet1"],
 "default_access_vpc": true
 }, {
 "vpc_id": "04abddf6-e848-4c90-bdb1-6de856favpc2",
 "subnet_ids": ["04abddf6-e848-4c90-bdb1-6de85subnet3"]
 }]
}
```

## Status Codes

| Status Code | Description                                                          |
|-------------|----------------------------------------------------------------------|
| 200         | Response to the request for querying Huawei Cloud Workspace details. |

| Status Code | Description                                                                                           |
|-------------|-------------------------------------------------------------------------------------------------------|
| 400         | The request cannot be understood by the server due to malformed syntax.                               |
| 401         | Authentication failed.                                                                                |
| 403         | You do not have required permissions.                                                                 |
| 404         | No resource found.                                                                                    |
| 500         | An internal service error occurred. For details about the error code, see the error code description. |

## Error Codes

See [Error Codes](#).

## 4.2.8 Subscribes to Huawei Cloud Workspace

### Function

Subscribes to Huawei Cloud Workspace.

An asynchronous API. If this API can be called, the background receives the request for subscribing to Huawei Cloud Workspace. However, you need to call the **GET /v2/{project\_id}/workspace-sub-jobs** API to query the task execution status.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

POST /v2/{project\_id}/workspaces

**Table 4-228** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

## Request Parameters

**Table 4-229** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                 |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API that is used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | Yes       | String | MIME type of the request body.                                                                                                                                              |

**Table 4-230** Request body parameters

| Parameter          | Mandatory | Type                                    | Description                                                                                                                                                                                                                                                                                                                          |
|--------------------|-----------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ad_domains         | Yes       | <a href="#">AdDomain</a> object         | Domain information.                                                                                                                                                                                                                                                                                                                  |
| enterprise_id      | No        | String                                  | Enterprise ID.<br>An enterprise ID is your unique identifier on Workspace. End users need to enter an enterprise ID upon login. If an enterprise ID is not customized, the system automatically generates one. The value contains a maximum of 32 characters and can only include digits, letters, hyphens (-), and underscores (_). |
| vpc_id             | No        | String                                  | VPC ID.                                                                                                                                                                                                                                                                                                                              |
| subnet_ids         | No        | Array of <a href="#">Subnet</a> objects | Network ID of the service subnet. The subnet ID cannot be the same as that of 172.16.0.0/12.                                                                                                                                                                                                                                         |
| manage_subnet_cidr | No        | String                                  | Management subnet CIDR.<br>Note: The value cannot be the same as the subnet CIDR of 172.16.0.0/12 or that specified by <b>subnet_ids</b> .                                                                                                                                                                                           |

| Parameter                        | Mandatory | Type                                                | Description                                                                                                                                                                                                 |
|----------------------------------|-----------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| access_mode                      | No        | String                                              | Access mode. <ul style="list-style-type: none"> <li>INTERNET: access through Internet</li> <li>DEDICATED: access through Direct Connect</li> <li>BOTH: access through Internet or Direct Connect</li> </ul> |
| apply_shared_vpc_dedicated_param | No        | <a href="#">ApplySharedVpcDedicatedParam</a> object | Input parameter of the shared VPC Direct Connect.                                                                                                                                                           |
| dedicated_subnets                | No        | String                                              | List of Direct Connect access network segments. Multiple network segments are separated by semicolons (;). The list contains a maximum of five network segments.                                            |
| is_send_email                    | No        | Boolean                                             | Whether to send a notification email upon desktop unsubscription.                                                                                                                                           |

**Table 4-231** AdDomain

| Parameter   | Mandatory | Type   | Description                                                                                                                                                                                                                                                        |
|-------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| domain_type | Yes       | String | Domain type. <ul style="list-style-type: none"> <li>LITE_AS: local authentication</li> <li>LOCAL_AD: local AD</li> </ul> When <b>domain_type</b> is set to <b>LOCAL_AD</b> , ensure that the selected VPC can be connected to the network to which the AD belongs. |
| domain_name | No        | String | Domain name. This parameter is mandatory when domain type is set to <b>LOCAL_AD</b> . The domain name must be an existing domain name on the Windows AD server and can contain a maximum of 55 characters.                                                         |

| Parameter            | Mandatory | Type   | Description                                                                                                                                                                                      |
|----------------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| domain_admin_account | No        | String | Domain administrator account. This parameter is mandatory when domain type is set to <b>LOCAL_AD</b> .<br>The account must be an existing domain administrator account on the Windows AD server. |
| domain_password      | No        | String | Domain administrator account and password. This parameter is mandatory when domain type is set to <b>LOCAL_AD</b> .                                                                              |
| active_domain_ip     | No        | String | Primary domain controller IP address. This parameter is mandatory when domain type is set to <b>LOCAL_AD</b> .                                                                                   |
| active_domain_name   | No        | String | Primary domain controller name. This parameter is mandatory when domain type is set to <b>LOCAL_AD</b> .                                                                                         |
| standby_domain_ip    | No        | String | Backup domain controller IP address. This parameter is mandatory when domain type is set to <b>LOCAL_AD</b> and the standby node is configured.                                                  |
| standby_domain_name  | No        | String | Backup domain controller name. This parameter is mandatory when domain type is set to <b>LOCAL_AD</b> and the standby node is configured.                                                        |
| active_dns_ip        | No        | String | Primary DNS IP address. This parameter is mandatory when domain type is set to <b>LOCAL_AD</b> .                                                                                                 |
| standby_dns_ip       | No        | String | Standby DNS IP address. This parameter is mandatory when domain type is set to <b>LOCAL_AD</b> and the standby node is configured.                                                               |

| Parameter              | Mandatory | Type                             | Description                                                                                                                                                                                                              |
|------------------------|-----------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| delete_computer_object | No        | Integer                          | Whether to delete the corresponding computer object from the AD when deleting the desktop. The value 0 indicates that the computer object is not deleted, and the value 1 indicates that the computer object is deleted. |
| use_ldaps              | No        | Boolean                          | Whether to enable LDAPS.                                                                                                                                                                                                 |
| tls_config             | No        | <a href="#">TlsConfig</a> object | TLS information.                                                                                                                                                                                                         |

**Table 4-232** TlsConfig

| Parameter       | Mandatory | Type   | Description                                                                                            |
|-----------------|-----------|--------|--------------------------------------------------------------------------------------------------------|
| cert_pem        | No        | String | PEM content. If the content exists, update it. Otherwise, upload it. The query result is not returned. |
| cert_start_time | No        | String | Time when the certificate starts to take effect, for example, 2022-01-25T09:24:27.                     |
| cert_end_time   | No        | String | Time when the certificate expires, for example, 2022-01-25T09:24:27.                                   |

**Table 4-233** Subnet

| Parameter | Mandatory | Type   | Description        |
|-----------|-----------|--------|--------------------|
| subnet_id | Yes       | String | Subnet network ID. |

**Table 4-234** ApplySharedVpcDedicatedParam

| Parameter | Mandatory | Type   | Description                                                |
|-----------|-----------|--------|------------------------------------------------------------|
| address   | No        | String | Shared VPC Direct Connect address specified by the tenant. |

| Parameter         | Mandatory | Type             | Description                                                                          |
|-------------------|-----------|------------------|--------------------------------------------------------------------------------------|
| port              | No        | Integer          | Shared VPC Direct Connect address port specified by the tenant.                      |
| availability_zone | No        | Array of strings | AZ used for subscribing to service resources. By default, two AZs are randomly used. |

## Response Parameters

**Status code: 200**

**Table 4-235** Response body parameters

| Parameter | Type   | Description                                               |
|-----------|--------|-----------------------------------------------------------|
| job_id    | String | ID of the task for subscribing to Huawei Cloud Workspace. |

**Status code: 400**

**Table 4-236** Response body parameters

| Parameter                     | Type   | Description                                                                                                                      |
|-------------------------------|--------|----------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                      |
| error_msg                     | String | Error description.                                                                                                               |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorizati-on-message</b> of STS to decrypt the reason. |

**Status code: 401**

**Table 4-237** Response body parameters

| Parameter  | Type   | Description        |
|------------|--------|--------------------|
| error_code | String | Error code.        |
| error_msg  | String | Error description. |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-238** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-239** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-240** Response body parameters

| Parameter  | Type   | Description        |
|------------|--------|--------------------|
| error_code | String | Error code.        |
| error_msg  | String | Error description. |



| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

## Example Requests

- POST /v2/fb2e5ec048384c8f9469d22db0037908/workspaces

```
{
 "ad_domains": {
 "domain_type": "LITE_AS"
 },
 "vpc_id": "e8f985fa-5161-4cb8-bf5a-155058ea58c9",
 "subnet_ids": [{
 "subnet_id": "067b30a9-1b73-4804-a808-699c5f6c4e09"
 }],
 "access_mode": "INTERNET",
 "is_send_email": true
}
```

- {
 

```
"ad_domains": {
 "domain_type": "LOCAL_AD",
 "domain_admin_account": "vdsadmin",
 "active_domain_ip": "192.161.43.66",
 "standby_domain_ip": "192.161.43.67",
 "domain_name": "xxxx.xxx.com",
 "domain_password": "xxxxxxxxx@",
 "active_domain_name": "AD-xxx-0001.vdesktop.huawei.com",
 "active_dns_ip": "192.161.43.66",
 "standby_domain_name": "AD-xxx-0002.vdesktop.huawei.com",
 "standby_dns_ip": "192.161.43.67"
 },
 "vpc_id": "27823fc4-5808-4f3b-a5bc-24c7a80742b8",
 "subnet_ids": [{
 "subnet_id": "598d4599-059f-40ca-9cce-841b784d13e6"
 }],
 "access_mode": "INTERNET",
 "is_send_email": true
 }
```

- {
 

```
"ad_domains": {
 "domain_type": "LOCAL_AD",
 "domain_admin_account": "vdsadmin",
 "active_domain_ip": "192.161.43.66",
 "standby_domain_ip": "192.161.43.67",
 "domain_name": "xxxx.xxx.com",
 "domain_password": "xxxxxxxxx@",
 "active_domain_name": "AD-xxx-0001.vdesktop.huawei.com",
 "active_dns_ip": "192.161.43.66",
 "standby_domain_name": "AD-xxx-0002.vdesktop.huawei.com",
 "standby_dns_ip": "192.161.43.67"
 },
 "vpc_id": "27823fc4-5808-4f3b-a5bc-24c7a80742b8",
 "subnet_ids": [{
 "subnet_id": "598d4599-059f-40ca-9cce-841b784d13e6"
 }],
 "access_mode": "DEDICATED",
 "is_send_email": true,
 "dedicated_subnets": "192.168.0.0/24;10.0.0.0/16"
 }
```

## Example Responses

### Status code: 200

Response to the request for subscribing to Huawei Cloud Workspace.

```
{
 "job_id" : "0000000059071dbc01591661d3990019"
}
```

## Status Codes

| Status Code | Description                                                                                           |
|-------------|-------------------------------------------------------------------------------------------------------|
| 200         | Response to the request for subscribing to Huawei Cloud Workspace.                                    |
| 400         | The request cannot be understood by the server due to malformed syntax.                               |
| 401         | Authentication failed.                                                                                |
| 403         | You do not have required permissions.                                                                 |
| 404         | No resource found.                                                                                    |
| 500         | An internal service error occurred. For details about the error code, see the error code description. |

## Error Codes

See [Error Codes](#).

## 4.2.9 Unsubscribes from Huawei Cloud Workspace

### Function

Unsubscribes from Huawei Cloud Workspace. Ensure that the desktop of the current user has been deleted before unsubscription. The desktop cannot be restored after unsubscription.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

DELETE /v2/{project\_id}/workspaces

**Table 4-241** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

## Request Parameters

**Table 4-242** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                 |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API that is used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | Yes       | String | MIME type of the request body.                                                                                                                                              |

## Response Parameters

**Status code: 202**

**Table 4-243** Response body parameters

| Parameter | Type   | Description                                                   |
|-----------|--------|---------------------------------------------------------------|
| job_id    | String | ID of the task for unsubscribing from Huawei Cloud Workspace. |

**Status code: 400**

**Table 4-244** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-245** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-246** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-247** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500**

**Table 4-248** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

## Example Requests

None

## Example Responses

**Status code: 202**

Response to the request for unsubscribing from Huawei Cloud Workspace.

```
{
 "job_id" : "0000000059071dbc01591661d3990019"
}
```

## Status Codes

| Status Code | Description                                                                                           |
|-------------|-------------------------------------------------------------------------------------------------------|
| 202         | Response to the request for unsubscribing from Huawei Cloud Workspace.                                |
| 400         | The request cannot be understood by the server due to malformed syntax.                               |
| 401         | Authentication failed.                                                                                |
| 403         | You do not have required permissions.                                                                 |
| 404         | No resource found.                                                                                    |
| 500         | An internal service error occurred. For details about the error code, see the error code description. |

## Error Codes

See [Error Codes](#).

## 4.2.10 Modifies attributes of Huawei Cloud Workspace

### Function

Modifies attributes of Huawei Cloud Workspace. Only one attribute type can be modified in a single request.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

PUT /v2/{project\_id}/workspaces

**Table 4-249** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

### Request Parameters

**Table 4-250** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                 |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API that is used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | Yes       | String | MIME type of the request body.                                                                                                                                              |

**Table 4-251** Request body parameters

| Parameter  | Mandatory | Type                                | Description         |
|------------|-----------|-------------------------------------|---------------------|
| ad_info    | No        | <a href="#">AdDomainInfo</a> object | Domain information. |
| ad_domains | No        | <a href="#">AdDomain</a> object     | Domain information. |

| Parameter                        | Mandatory | Type                                                | Description                                                                                                                                                                                                                                                                               |
|----------------------------------|-----------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| access_mode                      | No        | String                                              | Access mode. <ul style="list-style-type: none"> <li>INTERNET: access through Internet</li> <li>DEDICATED: access through Direct Connect</li> <li>BOTH: access through Internet or Direct Connect</li> </ul>                                                                               |
| dedicated_subnets                | No        | String                                              | List of Direct Connect access network segments. Multiple network segments are separated by semicolons (;). The list contains a maximum of five network segments.                                                                                                                          |
| adn_conflict_network             | No        | String                                              | Conflicted CIDR blocks in ADN network access. Multiple CIDR blocks are separated by semicolons (;). A maximum of 50 CIDR blocks are allowed.                                                                                                                                              |
| subnet_ids                       | No        | Array of strings                                    | Subnet network IDs.                                                                                                                                                                                                                                                                       |
| internet_access_port             | No        | String                                              | Internet access port.                                                                                                                                                                                                                                                                     |
| enterprise_id                    | No        | String                                              | Enterprise ID.                                                                                                                                                                                                                                                                            |
| is_send_email                    | No        | Boolean                                             | Whether to send a notification email upon desktop unsubscription.                                                                                                                                                                                                                         |
| dc_vnc_ip                        | No        | String                                              | Whether to enable the function of accessing VNC through Direct Connect. If the value is <b>default</b> , the function is automatically enabled. If the value is a user-defined <b>dc_vnc_ip</b> , the function is directly used. If the value is <b>close</b> , the function is disabled. |
| authorized_collect_log           | No        | Boolean                                             | Indicates whether to authorize log collection.                                                                                                                                                                                                                                            |
| authorized_hda_upgrade           | No        | Boolean                                             | Indicates whether to authorize the hda upgrade.                                                                                                                                                                                                                                           |
| apply_shared_vpc_dedicated_param | No        | <a href="#">ApplySharedVpcDedicatedParam</a> object | Input parameter of the shared VPC Direct Connect.                                                                                                                                                                                                                                         |

| Parameter                             | Mandatory | Type                                                     | Description                                                                           |
|---------------------------------------|-----------|----------------------------------------------------------|---------------------------------------------------------------------------------------|
| apply_dedicated_standby_network_param | No        | <a href="#">ApplyDedicatedStandbyNetworkParam</a> object | Parameter specified for enabling the standby Direct Connect.                          |
| is_authorized_install_agent           | No        | Boolean                                                  | Whether to grant the permission for automatic agent plug-in installation on desktops. |
| enable_user_create_snapshot           | No        | Boolean                                                  | Whether to authorize end tenants to create snapshots.                                 |

Table 4-252 AdDomainInfo

| Parameter            | Mandatory | Type   | Description                                                                                                                                                                                                                                                       |
|----------------------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| domain_type          | Yes       | String | Domain type. <ul style="list-style-type: none"> <li>LITE_AS: LiteAS</li> <li>LOCAL_AD: local AD</li> </ul> When <b>domain_type</b> is set to <b>LOCAL_AD</b> , ensure that the selected VPC can be connected to the network to which the <b>LOCAL_AD</b> belongs. |
| domain_admin_account | Yes       | String | Domain administrator account.                                                                                                                                                                                                                                     |
| domain_password      | Yes       | String | Domain administrator account and password.                                                                                                                                                                                                                        |

Table 4-253 AdDomain

| Parameter   | Mandatory | Type   | Description                                                                                                                                                                                                                                                        |
|-------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| domain_type | Yes       | String | Domain type. <ul style="list-style-type: none"> <li>LITE_AS: local authentication</li> <li>LOCAL_AD: local AD</li> </ul> When <b>domain_type</b> is set to <b>LOCAL_AD</b> , ensure that the selected VPC can be connected to the network to which the AD belongs. |



| Parameter            | Mandatory | Type   | Description                                                                                                                                                                                                   |
|----------------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| domain_name          | No        | String | Domain name. This parameter is mandatory when domain type is set to <b>LOCAL_AD</b> .<br>The domain name must be an existing domain name on the Windows AD server and can contain a maximum of 55 characters. |
| domain_admin_account | No        | String | Domain administrator account. This parameter is mandatory when domain type is set to <b>LOCAL_AD</b> .<br>The account must be an existing domain administrator account on the Windows AD server.              |
| domain_password      | No        | String | Domain administrator account and password. This parameter is mandatory when domain type is set to <b>LOCAL_AD</b> .                                                                                           |
| active_domain_ip     | No        | String | Primary domain controller IP address. This parameter is mandatory when domain type is set to <b>LOCAL_AD</b> .                                                                                                |
| active_domain_name   | No        | String | Primary domain controller name. This parameter is mandatory when domain type is set to <b>LOCAL_AD</b> .                                                                                                      |
| standby_domain_ip    | No        | String | Backup domain controller IP address. This parameter is mandatory when domain type is set to <b>LOCAL_AD</b> and the standby node is configured.                                                               |
| standby_domain_name  | No        | String | Backup domain controller name. This parameter is mandatory when domain type is set to <b>LOCAL_AD</b> and the standby node is configured.                                                                     |
| active_dns_ip        | No        | String | Primary DNS IP address. This parameter is mandatory when domain type is set to <b>LOCAL_AD</b> .                                                                                                              |

| Parameter              | Mandatory | Type                    | Description                                                                                                                                                                                                              |
|------------------------|-----------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| standby_dns_ip         | No        | String                  | Standby DNS IP address. This parameter is mandatory when domain type is set to <b>LOCAL_AD</b> and the standby node is configured.                                                                                       |
| delete_computer_object | No        | Integer                 | Whether to delete the corresponding computer object from the AD when deleting the desktop. The value 0 indicates that the computer object is not deleted, and the value 1 indicates that the computer object is deleted. |
| use_ldaps              | No        | Boolean                 | Whether to enable LDAPS.                                                                                                                                                                                                 |
| tls_config             | No        | <b>TlsConfig</b> object | TLS information.                                                                                                                                                                                                         |

**Table 4-254** TlsConfig

| Parameter       | Mandatory | Type   | Description                                                                                            |
|-----------------|-----------|--------|--------------------------------------------------------------------------------------------------------|
| cert_pem        | No        | String | PEM content. If the content exists, update it. Otherwise, upload it. The query result is not returned. |
| cert_start_time | No        | String | Time when the certificate starts to take effect, for example, 2022-01-25T09:24:27.                     |
| cert_end_time   | No        | String | Time when the certificate expires, for example, 2022-01-25T09:24:27.                                   |

**Table 4-255** ApplySharedVpcDedicatedParam

| Parameter | Mandatory | Type   | Description                                                |
|-----------|-----------|--------|------------------------------------------------------------|
| address   | No        | String | Shared VPC Direct Connect address specified by the tenant. |

| Parameter         | Mandatory | Type             | Description                                                                          |
|-------------------|-----------|------------------|--------------------------------------------------------------------------------------|
| port              | No        | Integer          | Shared VPC Direct Connect address port specified by the tenant.                      |
| availability_zone | No        | Array of strings | AZ used for subscribing to service resources. By default, two AZs are randomly used. |

**Table 4-256** ApplyDedicatedStandbyNetworkParam

| Parameter         | Mandatory | Type             | Description                                                                          |
|-------------------|-----------|------------------|--------------------------------------------------------------------------------------|
| address           | No        | String           | Standby address specified by the tenant for Direct Connect.                          |
| port              | No        | Integer          | Standby address port specified by the tenant for Direct Connect.                     |
| availability_zone | No        | Array of strings | AZ used for subscribing to service resources. By default, two AZs are randomly used. |

## Response Parameters

**Status code: 200**

**Table 4-257** Response body parameters

| Parameter     | Type   | Description                                                                    |
|---------------|--------|--------------------------------------------------------------------------------|
| job_id        | String | ID of the task for modifying the service attributes of Huawei Cloud Workspace. |
| enterprise_id | String | Enterprise ID.                                                                 |
| dc_vnc_ip     | String | IP address for accessing VNC through Direct Connect.                           |

**Status code: 400**

**Table 4-258** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error code. |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-259** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-260** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-261** Response body parameters

| Parameter  | Type   | Description        |
|------------|--------|--------------------|
| error_code | String | Error code.        |
| error_msg  | String | Error description. |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-262** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Example Requests**

- ```
PUT /v2/fb2e5ec048384c8f9469d22db0037908/workspaces
{
  "access_mode": "BOTH"
}
```
- ```
{
 "ad_domains": {
 "domain_type": "LOCAL_AD",
 "domain_admin_account": "vdsadmin",
 "active_domain_ip": "192.161.43.66",
 "standby_domain_ip": "192.161.43.67",
 "domain_name": "vdesktop.huawei.com",
 "domain_password": "xxxxxxxxx@",
 "active_domain_name": "AD-xxx-0001.vdesktop.huawei.com",
 "active_dns_ip": "192.161.43.66",
 "standby_domain_name": "AD-xxx-0002.vdesktop.huawei.com",
 "standby_dns_ip": "192.161.43.67",
 "use_ldaps": true,
 "tls_config": {
 "cert_pem": "-----BEGIN CERTIFICATE-----\nMIIDiTCcAnGgAwIBAgIQQdj2u+x1LJ9Dc34un\n\n-----
END CERTIFICATE"
 }
 }
}
```
- ```
{
  "access_mode": "DEDICATED",
  "dedicated_subnets": "192.168.0.0/24;10.0.0.0/16"
}
```
- ```
{
 "is_send_email": false
}
```

## Example Responses

### Status code: 200

Response to the request for modifying attributes of Huawei Cloud Workspace.

```
{
 "job_id" : "0000000059071dbc01591661d3990019"
}
```

## Status Codes

| Status Code | Description                                                                                           |
|-------------|-------------------------------------------------------------------------------------------------------|
| 200         | Response to the request for modifying attributes of Huawei Cloud Workspace.                           |
| 400         | The request cannot be understood by the server due to malformed syntax.                               |
| 401         | Authentication failed.                                                                                |
| 403         | You do not have required permissions.                                                                 |
| 404         | No resource found.                                                                                    |
| 500         | An internal service error occurred. For details about the error code, see the error code description. |

## Error Codes

See [Error Codes](#).

## 4.2.11 Modifying an Enterprise ID

### Function

Modifies the enterprise ID of a tenant.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

PUT /v2/{project\_id}/workspaces/enterprise-id

**Table 4-263** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

## Request Parameters

**Table 4-264** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                 |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API that is used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | Yes       | String | MIME type of the request body.                                                                                                                                              |

**Table 4-265** Request body parameters

| Parameter     | Mandatory | Type   | Description    |
|---------------|-----------|--------|----------------|
| enterprise_id | Yes       | String | Enterprise ID. |

## Response Parameters

**Status code: 200**

**Table 4-266** Response body parameters

| Parameter     | Type   | Description    |
|---------------|--------|----------------|
| enterprise_id | String | Enterprise ID. |

**Status code: 400**

**Table 4-267** Response body parameters

| Parameter  | Type   | Description        |
|------------|--------|--------------------|
| error_code | String | Error code.        |
| error_msg  | String | Error description. |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-268** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-269** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-270** Response body parameters

| Parameter  | Type   | Description        |
|------------|--------|--------------------|
| error_code | String | Error code.        |
| error_msg  | String | Error description. |



| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500**

**Table 4-271** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

## Example Requests

```
PUT /v2/fb2e5ec048384c8f9469d22db0037908/workspaces/enterprise-id
{
 "enterprise_id" : "huawei"
}
```

## Example Responses

**Status code: 200**

Response body for modifying an enterprise ID.

```
{
 "enterprise_id" : "huawei"
}
```

## Status Codes

| Status Code | Description                                                             |
|-------------|-------------------------------------------------------------------------|
| 200         | Response body for modifying an enterprise ID.                           |
| 400         | The request cannot be understood by the server due to malformed syntax. |
| 401         | Authentication failed.                                                  |
| 403         | No operation permissions.                                               |

| Status Code | Description                                                                      |
|-------------|----------------------------------------------------------------------------------|
| 404         | No resources found.                                                              |
| 500         | An internal service error occurred. For details, see the error code description. |

## Error Codes

See [Error Codes](#).

## 4.2.12 Queries whether Huawei Cloud Workspace is locked

### Function

Queries whether Huawei Cloud Workspace is locked.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

GET /v2/{project\_id}/workspaces/lock-status

**Table 4-272** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

### Request Parameters

**Table 4-273** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                 |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API that is used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |

| Parameter    | Mandatory | Type   | Description                    |
|--------------|-----------|--------|--------------------------------|
| Content-Type | Yes       | String | MIME type of the request body. |

## Response Parameters

**Status code: 200**

**Table 4-274** Response body parameters

| Parameter   | Type    | Description                                                                                                |
|-------------|---------|------------------------------------------------------------------------------------------------------------|
| is_lock     | Integer | Whether Huawei Cloud Workspace is locked. The value 0 indicates unlocked and the value 1 indicates locked. |
| lock_time   | String  | Time when Huawei Cloud Workspace is locked. The format is yyyy-MM-dd HH:mm:ss. The time zone is UTC.       |
| lock_reason | String  | Cause for locking Huawei Cloud Workspace.                                                                  |

**Status code: 400**

**Table 4-275** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401**

**Table 4-276** Response body parameters

| Parameter  | Type   | Description        |
|------------|--------|--------------------|
| error_code | String | Error code.        |
| error_msg  | String | Error description. |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-277** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-278** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-279** Response body parameters

| Parameter  | Type   | Description        |
|------------|--------|--------------------|
| error_code | String | Error code.        |
| error_msg  | String | Error description. |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

## Example Requests

```
GET /v2/8a2c3f8e71ed17c60171ed1fbf340000/workspaces/lock-status
```

## Example Responses

**Status code: 200**

Response to the request for querying whether Huawei Cloud Workspace is locked.

```
{
 "is_lock": 1
}
```

## Status Codes

| Status Code | Description                                                                                           |
|-------------|-------------------------------------------------------------------------------------------------------|
| 200         | Response to the request for querying whether Huawei Cloud Workspace is locked.                        |
| 400         | The request cannot be understood by the server due to malformed syntax.                               |
| 401         | Authentication failed.                                                                                |
| 403         | You do not have required permissions.                                                                 |
| 404         | No resource found.                                                                                    |
| 500         | An internal service error occurred. For details about the error code, see the error code description. |

## Error Codes

See [Error Codes](#).

## 4.2.13 Unlocks Huawei Cloud Workspace

### Function

Unlocks Huawei Cloud Workspace.

## Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

## URI

PUT /v2/{project\_id}/workspaces/lock-status

**Table 4-280** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

## Request Parameters

**Table 4-281** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                 |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API that is used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | Yes       | String | MIME type of the request body.                                                                                                                                              |

**Table 4-282** Request body parameters

| Parameter    | Mandatory | Type   | Description                            |
|--------------|-----------|--------|----------------------------------------|
| operate_type | No        | String | Operation type of unlocking a project. |

## Response Parameters

Status code: 200

**Table 4-283** Response body parameters

| Parameter | Type   | Description |
|-----------|--------|-------------|
| job_id    | String | Task ID.    |

**Status code: 400****Table 4-284** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-285** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-286** Response body parameters

| Parameter  | Type   | Description        |
|------------|--------|--------------------|
| error_code | String | Error code.        |
| error_msg  | String | Error description. |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-287** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-288** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Example Requests**

```
PUT /v2/fb2e5ec048384c8f9469d22db0037908/workspaces/lock-status
{
 "operate_type": "unLock"
}
```

**Example Responses****Status code: 200**

Response to the request for unlocking a project.



```
{
 "job_id" : "0000000059071dbc01591661d3990019"
}
```

## Status Codes

| Status Code | Description                                                                                           |
|-------------|-------------------------------------------------------------------------------------------------------|
| 200         | Response to the request for unlocking a project.                                                      |
| 400         | The request cannot be understood by the server due to malformed syntax.                               |
| 401         | Authentication failed.                                                                                |
| 403         | You do not have required permissions.                                                                 |
| 404         | No resource found.                                                                                    |
| 500         | An internal service error occurred. For details about the error code, see the error code description. |

## Error Codes

See [Error Codes](#).

## 4.3 Desktop

### 4.3.1 Creates a desktop

#### Function

Creates and assigns a desktop to a user. After the desktop is created, the user can log in to the desktop.

#### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

#### URI

POST /v2/{project\_id}/desktops

**Table 4-289** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

## Request Parameters

**Table 4-290** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                 |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API that is used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | No        | String | MIME type of the request body.                                                                                                                                              |

**Table 4-291** Request body parameters

| Parameter         | Mandatory | Type                           | Description                                                                                                                                                                            |
|-------------------|-----------|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| desktop_type      | Yes       | String                         | Specifies the cloud desktop type. <ul style="list-style-type: none"> <li>DEDICATED: dedicated desktop for a single user.</li> <li>SHARED: Multiple users share the desktop.</li> </ul> |
| availability_zone | No        | String                         | AZ. Creates a desktop in the specified AZ. If this parameter is not specified, the default AZ is used.                                                                                 |
| product_id        | Yes       | String                         | Package ID.                                                                                                                                                                            |
| image_type        | Yes       | String                         | Image type. The default value is <b>private</b> . <ul style="list-style-type: none"> <li>private: a private image</li> <li>gold: a public image</li> </ul>                             |
| image_id          | Yes       | String                         | Image ID. This parameter is used together with <b>product_id</b> for creating desktops using custom images.                                                                            |
| root_volume       | Yes       | <b>Volume</b> object           | System disk.                                                                                                                                                                           |
| data_volumes      | No        | Array of <b>Volume</b> objects | Data disks.                                                                                                                                                                            |

| Parameter          | Mandatory | Type                                  | Description                                                                                                                                                                                                                                                                                                                                         |
|--------------------|-----------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| nics               | No        | Array of <b>Nic</b> objects           | Information about the NIC corresponding to the desktop. If this parameter is not specified, the default NIC is used.                                                                                                                                                                                                                                |
| security_groups    | No        | Array of <b>SecurityGroup</b> objects | Security group used by the desktop. If no security group is specified, the security group specified in the desktop agent is used by default.                                                                                                                                                                                                        |
| desktops           | No        | Array of <b>Desktop</b> objects       | Parameters used for creating a desktop. The value contains 1 to 50 characters.<br><br>Currently, a batch of desktops cannot have different configurations. The configurations of all desktops must be the same as those of the first desktop. If no parameter is specified for the first desktop, the outer parameters with the same name are used. |
| desktop_name       | No        | String                                | This parameter is used together with <b>size</b> . If <b>size</b> is set to <b>1</b> , this parameter indicates the desktop name, which consists of 1 to 15 characters. If <b>size</b> is set to a value greater than <b>1</b> , this parameter indicates the desktop name prefix, which consists of 1 to 13 characters.                            |
| desktop_ips        | No        | Array of strings                      | IP addresses assigned to the desktop. The value ranges from 0 to 100.                                                                                                                                                                                                                                                                               |
| size               | No        | Integer                               | Number of desktops that are not assigned to users. This parameter cannot be used together with <b>desktops</b> . It is used together with <b>desktop_name</b> .                                                                                                                                                                                     |
| email_notification | No        | Boolean                               | Whether to send an email to notify the desktop user after a desktop is created. The default value is <b>true</b> .                                                                                                                                                                                                                                  |

| Parameter                        | Mandatory | Type                                       | Description                                                                                                                                                |
|----------------------------------|-----------|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| enterprise_project_id            | No        | String                                     | Enterprise project ID, which is <b>0</b> by default.                                                                                                       |
| tags                             | No        | Array of <b>Tag</b> objects                | Tags.                                                                                                                                                      |
| apply_shared_vpc_dedicated_param | No        | <b>ApplySharedVpcDedicatedParam</b> object | Input parameter of the shared VPC Direct Connect.                                                                                                          |
| eip                              | No        | <b>Eip</b> object                          | EIP information.                                                                                                                                           |
| desktop_name_policy_id           | No        | String                                     | Policy ID, which is used to specify the desktop name generation policy. If a desktop name is specified, the specified desktop name is used preferentially. |
| hour_package_product_id          | No        | String                                     | Hourly desktop package ID.                                                                                                                                 |
| hour_package_offering_id         | No        | String                                     | Offering ID of an hourly desktop package.                                                                                                                  |

**Table 4-292** Volume

| Parameter | Mandatory | Type    | Description                                                                                                                                                                                                                                         |
|-----------|-----------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| type      | Yes       | String  | Desktop data disk type, which must be the same as the disk type provided by the system. <ul style="list-style-type: none"> <li>• <b>SAS</b>: high I/O</li> <li>• <b>SSD</b>: ultra-high I/O</li> <li>• <b>GPSSD</b>: general-purpose SSD</li> </ul> |
| size      | Yes       | Integer | Disk capacity in GB. The system disk size ranges from 80 to 32760, and the data disk size ranges from 10 to 32760. The value must be a multiple of 10.                                                                                              |

**Table 4-293** Nic

| Parameter | Mandatory | Type   | Description                              |
|-----------|-----------|--------|------------------------------------------|
| subnet_id | Yes       | String | ID of the subnet on which the NIC works. |

**Table 4-294** SecurityGroup

| Parameter | Mandatory | Type   | Description        |
|-----------|-----------|--------|--------------------|
| id        | Yes       | String | Security group ID. |

**Table 4-295** Desktop

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| user_name  | Yes       | String | User to whom a desktop belongs. After a desktop is created, the user can log in to the desktop. Only letters, digits, hyphens (-), and underscores (_) are allowed. When the domain type is <b>LITE_AD</b> , the value contains 1 to 20 characters starting with a letter. When the domain type is <b>LOCAL_AD</b> , the value contains 1 to 32 characters starting with a letter or digit. A Windows desktop username can contain a maximum of 20 characters, and a Linux desktop username can contain a maximum of 32 characters. |
| user_email | No        | String | Valid user email. After a desktop is created, the system informs users through emails.                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| user_phone | No        | String | Mobile number of a valid user.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

| Parameter           | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| user_group          | No        | String | User group to which the desktop user belongs. <ul style="list-style-type: none"> <li>• sudo: Linux administrator group.</li> <li>• default: Default Linux user group.</li> <li>• administrators: Windows administrator group. Administrators have full access to the desktop and can make any required changes except for forbidden operations.</li> <li>• users: standard Windows user group. Standard users can use most software programs and change system settings that do not affect other users.</li> </ul> |
| computer_name       | No        | String | Desktop name, which must be unique. The desktop name can contain 1 to 15 characters in letters, digits, and hyphens (-). It must start with a letter or digit and cannot end with a hyphen (-).                                                                                                                                                                                                                                                                                                                    |
| os_host_name        | No        | String | Computer name in the OS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| desktop_name_prefix | No        | String | Desktop name prefix. This parameter takes effect when <b>computer_name</b> is not specified.                                                                                                                                                                                                                                                                                                                                                                                                                       |

**Table 4-296** Tag

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                                                                                                       |
|-----------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| key       | Yes       | String | Specifies the tag key. This parameter cannot be left blank and can contain a maximum of 128 Unicode characters. The value can contain uppercase letters, lowercase letters, digits, hyphens (-), and underscores (_). The value cannot contain the following characters: =*<>, /. |
| value     | No        | String | Value of a tag, which can contain a maximum of 43 Unicode characters. The value can contain uppercase letters, lowercase letters, digits, hyphens (-), and underscores (_). The value cannot contain the following characters: =*<>, /.                                           |

**Table 4-297** ApplySharedVpcDedicatedParam

| Parameter         | Mandatory | Type             | Description                                                                          |
|-------------------|-----------|------------------|--------------------------------------------------------------------------------------|
| address           | No        | String           | Shared VPC Direct Connect address specified by the tenant.                           |
| port              | No        | Integer          | Shared VPC Direct Connect address port specified by the tenant.                      |
| availability_zone | No        | Array of strings | AZ used for subscribing to service resources. By default, two AZs are randomly used. |

**Table 4-298** Eip

| Parameter | Mandatory | Type   | Description                                                                                          |
|-----------|-----------|--------|------------------------------------------------------------------------------------------------------|
| id        | No        | String | ID of the EIP bound to the desktop. If this parameter is specified, the EIP is preferentially bound. |

| Parameter      | Mandatory | Type    | Description                                                                                                                                                          |
|----------------|-----------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| type           | No        | String  | EIP type. The value can be <b>5_bgp</b> (dynamic BGP) or <b>5_sbgp</b> (static BGP).                                                                                 |
| charge_mode    | No        | String  | EIP bandwidth billing mode. <ul style="list-style-type: none"> <li>• <b>TRAFFIC</b>: billed by traffic.</li> <li>• <b>BANDWIDTH</b>: billed by bandwidth.</li> </ul> |
| bandwidth_size | No        | Integer | Bandwidth size.                                                                                                                                                      |

## Response Parameters

**Status code: 200**

**Table 4-299** Response body parameters

| Parameter | Type   | Description                            |
|-----------|--------|----------------------------------------|
| job_id    | String | ID of the cloud desktop creation task. |

**Status code: 400**

**Table 4-300** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401**



**Table 4-301** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-302** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-303** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-304** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Example Requests**

```
{
 "desktop_type": "DEDICATED",
 "image_type": "gold",
 "image_id": "a866298d-67db-44b0-a1f1-9d09bdddc20f",
 "root_volume": {
 "type": "SAS",
 "size": 80
 },
 "availability_zone": "az3.manage.x86",
 "desktops": [{
 "user_name": "ljh-002",
 "user_group": "administrators",
 "user_email": "aaaaa@huawei.com"
 }],
 "nics": [{
 "subnet_id": "5dee0216-2260-47c2-9368-98a27d910e55"
 }],
 "product_id": "workspace.c2.large.windows.2",
 "email_notification": true
}
```

**Example Responses****Status code: 200**

Response to the request for creating a cloud desktop.

```
{
 "job_id": "3979904c-7beb-4f34-835f-2fa989a5550a"
}
```

**Status Codes**

| Status Code | Description                                           |
|-------------|-------------------------------------------------------|
| 200         | Response to the request for creating a cloud desktop. |

| Status Code | Description                                                                                           |
|-------------|-------------------------------------------------------------------------------------------------------|
| 400         | The request cannot be understood by the server due to malformed syntax.                               |
| 401         | Authentication failed.                                                                                |
| 403         | No operation permissions.                                                                             |
| 404         | No resources found.                                                                                   |
| 500         | An internal service error occurred. For details about the error code, see the error code description. |

## Error Codes

See [Error Codes](#).

## 4.3.2 Queries desktops

### Function

Queries desktop VMs.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

GET /v2/{project\_id}/desktops

**Table 4-305** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

**Table 4-306** Query Parameters

| Parameter     | Mandatory | Type             | Description                       |
|---------------|-----------|------------------|-----------------------------------|
| user_name     | No        | Array of strings | User to whom the desktop belongs. |
| computer_name | No        | String           | Desktop name.                     |

| Parameter             | Mandatory | Type             | Description                                                                                                                                                                                                                                                                                                |
|-----------------------|-----------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| desktop_ip            | No        | String           | Desktop IP address.                                                                                                                                                                                                                                                                                        |
| offset                | No        | Integer          | Start position for pagination query. The value starts from 0.                                                                                                                                                                                                                                              |
| limit                 | No        | Integer          | Pagination query. The value ranges from 0 to 1000 and defaults to 1000.                                                                                                                                                                                                                                    |
| pool_id               | No        | String           | Desktop pool ID. Use commas (,) to separate multiple desktop pool IDs.                                                                                                                                                                                                                                     |
| enterprise_project_id | No        | String           | Enterprise project ID.                                                                                                                                                                                                                                                                                     |
| desktop_type          | No        | String           | Desktop type. If this parameter is left empty, all desktops are queried. Use commas (,) to separate multiple types. <ul style="list-style-type: none"> <li>• DEDICATED: common desktop, including dedicated desktop and dedicated desktop.</li> <li>• SHARED: Multiple users share the desktop.</li> </ul> |
| is_share_desktop      | No        | Boolean          | Whether the desktop is a collaborative desktop.                                                                                                                                                                                                                                                            |
| subnet_id             | No        | String           | Subnet ID of the desktop.                                                                                                                                                                                                                                                                                  |
| status                | No        | String           | Desktop running status.                                                                                                                                                                                                                                                                                    |
| desktop_id            | No        | Array of strings | Desktop ID. Up to 100 desktop IDs can be queried.                                                                                                                                                                                                                                                          |
| tag                   | No        | String           | Desktop tag. Examples: <ul style="list-style-type: none"> <li>• key1=value1</li> <li>• key1=value1, key2=value2</li> </ul>                                                                                                                                                                                 |

## Request Parameters

**Table 4-307** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                 |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API that is used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | No        | String | MIME type of the request body.                                                                                                                                              |

## Response Parameters

**Status code: 200**

**Table 4-308** Response body parameters

| Parameter   | Type                                               | Description               |
|-------------|----------------------------------------------------|---------------------------|
| total_count | Integer                                            | Total number of desktops. |
| desktops    | Array of <a href="#">SimpleDesktopInfo</a> objects | Desktop information.      |

**Table 4-309** SimpleDesktopInfo

| Parameter     | Type   | Description              |
|---------------|--------|--------------------------|
| domain_id     | String | Domain ID.               |
| project_id    | String | Project ID.              |
| desktop_id    | String | Desktop ID.              |
| computer_name | String | Computer name.           |
| os_host_name  | String | Computer name in the OS. |
| created       | String | Creation time.           |
| ip_address    | String | Desktop IP address.      |
| user_name     | String | Username.                |

| Parameter             | Type                                                     | Description                                        |
|-----------------------|----------------------------------------------------------|----------------------------------------------------|
| attach_user_infos     | Array of <a href="#">AttachInstancesUserInfo</a> objects | List of users to whom desktops have been assigned. |
| user_group            | String                                                   | Permission group.                                  |
| sid                   | String                                                   | SID of the desktop.                                |
| ou_name               | String                                                   | OU name.                                           |
| enterprise_project_id | String                                                   | Enterprise project ID.                             |
| tags                  | Array of <a href="#">Tag</a> objects                     | Tag list.                                          |
| in_maintenance_mode   | Boolean                                                  | In administrator maintenance mode or not.          |
| share_resource_sku    | String                                                   | Desktop collaboration resource SKU code.           |
| desktop_type          | String                                                   | Desktop type.                                      |
| subnet_id             | String                                                   | Subnet ID of the desktop.                          |
| bill_resource_id      | String                                                   | Billing resource ID of the desktop.                |
| status                | String                                                   | Desktop running status.                            |
| task_status           | String                                                   | Task status of the desktop.                        |

**Table 4-310** AttachInstancesUserInfo

| Parameter | Type   | Description                                                                                                                                                                        |
|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| user_id   | String | If <b>type</b> is set to <b>USER</b> , enter the user ID. If <b>type</b> is set to <b>GROUP</b> , enter the user group ID. The backend service checks whether the group ID exists. |

| Parameter  | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| user_name  | String | <p>Name of the object assigned with a desktop. If <b>type</b> is set to <b>USER</b>, enter the username. If <b>type</b> is set to <b>GROUP</b>, enter the user group name.</p> <ul style="list-style-type: none"> <li>If <b>type</b> is set to <b>USER</b>, the value is the username of the desktop user. After the desktop is assigned, the user can log in to the desktop. Only letters, digits, hyphens (-), and underscores (_) are allowed. When the domain type is <b>LITE_AD</b>, the value contains 1 to 20 characters starting with a letter. When the domain type is <b>LOCAL_AD</b>, the value contains 1 to 64 characters starting with a letter or digit. A Windows desktop username can contain a maximum of 20 characters, and a Linux desktop username can contain a maximum of 64 characters. The backend service checks whether the username exists. The username cannot be the same as the desktop name.</li> <li>If <b>type</b> is set to <b>GROUP</b>, the value can contain only letters, digits, hyphens (-), and underscores (_).</li> </ul> |
| user_group | String | <p>Specifies the user group to which the desktop user belongs.</p> <ul style="list-style-type: none"> <li>sudo: Linux administrator group.</li> <li>default: default Linux user group.</li> <li>administrators: Windows administrator group. Administrators have full access to the desktop and can make any required changes except for forbidden operations.</li> <li>users: standard Windows user group. Standard users can use most software programs and change system settings that do not affect other users.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| type       | String | <p>Object type. Options:</p> <ul style="list-style-type: none"> <li><b>USER</b>: user</li> <li><b>GROUP</b>: user group</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

**Table 4-311** Tag

| Parameter | Type   | Description                                                                                                                                                                                                                                                                       |
|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| key       | String | Specifies the tag key. This parameter cannot be left blank and can contain a maximum of 128 Unicode characters. The value can contain uppercase letters, lowercase letters, digits, hyphens (-), and underscores (_). The value cannot contain the following characters: =*<>, /. |
| value     | String | Value of a tag, which can contain a maximum of 43 Unicode characters. The value can contain uppercase letters, lowercase letters, digits, hyphens (-), and underscores (_). The value cannot contain the following characters: =*<>, /.                                           |

**Status code: 400****Table 4-312** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-313** Response body parameters

| Parameter    | Type   | Description                                 |
|--------------|--------|---------------------------------------------|
| error_code   | String | Error code, which is returned upon failure. |
| error_msg    | String | Error description.                          |
| error_detail | String | Error details.                              |



| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-314** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-315** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500**

**Table 4-316** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

## Example Requests

```
/v2/bcae3e673fd04716a3b9dacdf58ca336/desktops
```

## Example Responses

**Status code: 200**

Response to the request for querying cloud desktops.

```
{
 "total_count": 2,
 "desktops": [{
 "desktop_id": "a6f6e2d1-cc62-46f3-865b-9ae6ae0afde0",
 "computer_name": "ZRYUAN107",
 "created": "2022-02-23 04:02:07",
 "ip_address": "10.0.9.25",
 "user_name": "zryuan1",
 "user_group": "administrators",
 "sid": "3db90102-d11d-4d13-9a96-104696d3c6a3",
 "in_maintenance_mode": false,
 "share_resource_sku": "workspace.collaboratedesktop.6party.standard"
 }, {
 "desktop_id": "248077ea-bb64-4e58-b5e8-6b686600920e",
 "computer_name": "CHENYC01",
 "created": "2022-02-22 12:14:59",
 "ip_address": "10.0.9.103",
 "user_name": "chenyc",
 "user_group": "administrators",
 "sid": "352cf09d-ee15-4ef1-aa49-8d673972b4e6",
 "in_maintenance_mode": true,
 "share_resource_sku": "workspace.collaboratedesktop.6party.standard"
 }
]
}
```

## Status Codes

| Status Code | Description                                          |
|-------------|------------------------------------------------------|
| 200         | Response to the request for querying cloud desktops. |

| Status Code | Description                                                                                           |
|-------------|-------------------------------------------------------------------------------------------------------|
| 400         | The request cannot be understood by the server due to malformed syntax.                               |
| 401         | Authentication failed.                                                                                |
| 403         | No operation permissions.                                                                             |
| 404         | No resources found.                                                                                   |
| 500         | An internal service error occurred. For details about the error code, see the error code description. |

## Error Codes

See [Error Codes](#).

### 4.3.3 Modifying a Desktop Attribute

#### Function

Modifies a desktop attribute.

#### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

#### URI

PUT /v2/{project\_id}/desktops/{desktop\_id}

**Table 4-317** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |
| desktop_id | Yes       | String | Desktop ID. |

## Request Parameters

**Table 4-318** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                 |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API that is used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | No        | String | MIME type of the request body.                                                                                                                                              |

**Table 4-319** Request body parameters

| Parameter | Mandatory | Type                           | Description        |
|-----------|-----------|--------------------------------|--------------------|
| desktop   | No        | <a href="#">desktop</a> object | Desktop attribute. |

**Table 4-320** desktop

| Parameter              | Mandatory | Type   | Description                                                             |
|------------------------|-----------|--------|-------------------------------------------------------------------------|
| computer_name          | No        | String | Desktop name.                                                           |
| self_backup_management | No        | String | Whether to enable the snapshot function. <b>0</b> : no; <b>1</b> : yes. |

## Response Parameters

**Status code: 200**

**Table 4-321** Response body parameters

| Parameter    | Type   | Description                                 |
|--------------|--------|---------------------------------------------|
| error_code   | String | Error code, which is returned upon failure. |
| error_msg    | String | Error description.                          |
| error_detail | String | Error details.                              |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 400****Table 4-322** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-323** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403**

**Table 4-324** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-325** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-326** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

## Example Requests

```
{
 "desktop" : {
 "computer_name" : "string",
 "self_backup_management" : 1
 }
}
```

## Example Responses

**Status code: 200**

Normal.

```
{
 "error_code" : "string",
 "error_msg" : "string",
 "encoded_authorization_message" : "string"
}
```

## Status Codes

| Status Code | Description                                                                      |
|-------------|----------------------------------------------------------------------------------|
| 200         | Normal.                                                                          |
| 400         | The request cannot be understood by the server due to malformed syntax.          |
| 401         | Authentication failed.                                                           |
| 403         | No operation permissions.                                                        |
| 404         | No resources found.                                                              |
| 500         | An internal service error occurred. For details, see the error code description. |

## Error Codes

See [Error Codes](#).

### 4.3.4 Deletes one desktop

#### Function

Deletes one desktop. The deleted desktop cannot be restored.

#### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

## URI

DELETE /v2/{project\_id}/desktops/{desktop\_id}

**Table 4-327** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |
| desktop_id | Yes       | String | Desktop ID. |

**Table 4-328** Query Parameters

| Parameter          | Mandatory | Type    | Description                                                                                                                                                                                   |
|--------------------|-----------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| delete_users       | No        | Boolean | After a desktop is deleted, if the current user does not have other desktops, the desktop user can be deleted. The options are true (yes) and false (no). The default value is <b>false</b> . |
| email_notification | No        | Boolean | Whether to send an email notification to the desktop user after a desktop is deleted. The options are true (yes) and false (no). The default value is <b>true</b> .                           |
| is_force_delete    | No        | Boolean | Whether force deletion is performed.                                                                                                                                                          |

## Request Parameters

**Table 4-329** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                 |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API that is used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | No        | String | MIME type of the request body.                                                                                                                                              |



## Response Parameters

### Status code: 204

Normal, no response body.

### Status code: 400

**Table 4-330** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

### Status code: 401

**Table 4-331** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

### Status code: 403

**Table 4-332** Response body parameters

| Parameter  | Type   | Description                                 |
|------------|--------|---------------------------------------------|
| error_code | String | Error code, which is returned upon failure. |
| error_msg  | String | Error description.                          |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-333** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 409****Table 4-334** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500**

**Table 4-335** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

## Example Requests

```
/v2/0bec5db98280d2d02fd6c00c2de791ce/desktops/a130ab3a-72bf-4b71-baa9-af4987c8e338
```

## Example Responses

None

## Status Codes

| Status Code | Description                                                                                           |
|-------------|-------------------------------------------------------------------------------------------------------|
| 204         | Normal, no response body.                                                                             |
| 400         | The request cannot be understood by the server due to malformed syntax.                               |
| 401         | Authentication failed.                                                                                |
| 403         | No operation permissions.                                                                             |
| 404         | No resources found.                                                                                   |
| 409         | Operation conflict.                                                                                   |
| 500         | An internal service error occurred. For details about the error code, see the error code description. |

## Error Codes

See [Error Codes](#).

## 4.3.5 Queries details about one desktop

### Function

Queries details about a specified desktop by ID.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

GET /v2/{project\_id}/desktops/{desktop\_id}

**Table 4-336** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |
| desktop_id | Yes       | String | Desktop ID. |

### Request Parameters

**Table 4-337** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                 |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API that is used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | No        | String | MIME type of the request body.                                                                                                                                              |

### Response Parameters

**Status code: 200**

**Table 4-338** Response body parameters

| Parameter | Type                                     | Description      |
|-----------|------------------------------------------|------------------|
| desktop   | <a href="#">DesktopDetailInfo</a> object | Desktop details. |

**Table 4-339** DesktopDetailInfo

| Parameter       | Type                                             | Description                                                                                                                                                                                                                                                               |
|-----------------|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| desktop_id      | String                                           | Desktop ID.                                                                                                                                                                                                                                                               |
| computer_name   | String                                           | Desktop name.                                                                                                                                                                                                                                                             |
| os_host_name    | String                                           | Computer name in the OS.                                                                                                                                                                                                                                                  |
| addresses       | Map<String,Array< <a href="#">AddressInfo</a> >> | Desktop IP addresses.                                                                                                                                                                                                                                                     |
| ip_addresses    | Array of strings                                 | IP addresses.                                                                                                                                                                                                                                                             |
| ipv4            | String                                           | IPv4 address of the computer in the OS.                                                                                                                                                                                                                                   |
| ipv6            | String                                           | IPv6 address of the computer in the OS.                                                                                                                                                                                                                                   |
| user_list       | Array of strings                                 | User list.                                                                                                                                                                                                                                                                |
| user_group_list | Array of strings                                 | User group list.                                                                                                                                                                                                                                                          |
| desktop_type    | String                                           | Desktop type.<br><ul style="list-style-type: none"> <li>DEDICATED: a dedicated desktop</li> </ul>                                                                                                                                                                         |
| resource_type   | String                                           | <b>resource_type</b> field, which indicates dedicated desktop ( <b>DEDICATED_DESKTOP</b> ), pooled desktop ( <b>POOLED_DESKTOP</b> ), rendering desktop ( <b>RENDER_DESKTOP</b> ), exclusive host ( <b>EXCLUSIVE_HOST</b> ), or shared desktop ( <b>SHARED_DESKTOP</b> ). |

| Parameter | Type                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| metadata  | Map<String,String>                | Desktop metadata. <ul style="list-style-type: none"><li>• <b>charging_mode</b>: billing mode of the package. <b>1</b> indicates yearly/monthly billing, and <b>0</b> indicates pay-per-use billing.</li><li>• <b>image_name</b>: name of the image used to create a desktop</li><li>• <b>bill_resource_id</b>: billing resource ID of the image</li><li>• <b>metering.image_id</b>: image ID</li><li>• <b>metering.resourcespeccode</b>: desktop resource code</li><li>• <b>metering.resourcetype</b>: desktop resource type</li><li>• <b>os_bit</b>: number of bits of the OS. The value can be <b>32</b> or <b>64</b>.</li><li>• <b>os_type</b>: OS type. The value can be <b>Linux</b>, <b>Windows</b>, or <b>Others</b>.</li><li>• <b>desktop_os_version</b>: OS version</li></ul> |
| flavor    | <a href="#">FlavorInfo</a> object | Product information.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| status    | String                            | Desktop status.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

| Parameter   | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| task_status | String | <p>Task status.</p> <ul style="list-style-type: none"> <li>• <b>scheduling</b>: Resources are being scheduled.</li> <li>• <b>block_device_mapping</b>: The disk is being prepared.</li> <li>• <b>networking</b>: The network is being prepared.</li> <li>• <b>spawning</b>: The task is being created internally.</li> <li>• <b>rebooting</b>: The system is being restarted.</li> <li>• <b>reboot_pending</b>: The task of system restart is being delivered.</li> <li>• <b>reboot_started</b>: The system is being restarted internally.</li> <li>• <b>rebooting_hard</b>: The system is being force restarted.</li> <li>• <b>reboot_pending_hard</b>: The task of force restart is being delivered.</li> <li>• <b>reboot_started_hard</b>: The system is being force restarted internally.</li> <li>• <b>rebuilding</b>: The system is being rebuilt.</li> <li>• <b>rebuild_block_device_mapping</b>: The system is being rebuilt and disks are being prepared.</li> <li>• <b>rebuild_spawning</b>: The system is being rebuilt internally.</li> <li>• <b>migrating</b>: Live migration is being performed.</li> <li>• <b>resize_prep</b>: The specifications are to be adjusted.</li> <li>• <b>resize_migrating</b>: The specifications are being adjusted and the migration is in progress.</li> <li>• <b>resize_migrated</b>: The specifications are being adjusted and the migration has been completed.</li> <li>• <b>resize_finish</b>: The specifications have been adjusted.</li> <li>• <b>resize_reverting</b>: The specification adjustment is being rolled back.</li> <li>• <b>powering-off</b>: The system is being powered off.</li> </ul> |

| Parameter           | Type                                                     | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     |                                                          | <ul style="list-style-type: none"> <li>● <b>powering-on</b>: The system is being powered on.</li> <li>● <b>deleting</b>: Deleting...</li> <li>● <b>deleteFailed</b>: Deletion failed.</li> <li>● <b>updating</b>: Updating...</li> <li>● <b>desktopNetworkChanging</b>: The network is being switched.</li> </ul>                                                                                                                                                                                                                                                                                                             |
| in_maintenance_mode | Boolean                                                  | Whether the desktop is in maintenance mode. The options are <b>true</b> (yes) and <b>false</b> (no).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| created             | String                                                   | Time when a desktop is created.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| security_groups     | Array of <a href="#">SecurityGroupInfo</a> objects       | Desktop security group.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| login_status        | String                                                   | <p>Login status of a desktop.</p> <ul style="list-style-type: none"> <li>● <b>UNREGISTER</b>: The desktop is not registered. After the desktop is started, it is automatically registered. After the desktop is shut down, it is unregistered.</li> <li>● <b>REGISTERED</b>: The desktop has been registered and is waiting for user connections.</li> <li>● <b>CONNECTED</b>: A user has logged in to a desktop and is using it.</li> <li>● <b>DISCONNECTED</b>: The desktop is disconnected from the client because the client window is closed or the networking between the client and desktop is interrupted.</li> </ul> |
| user_name           | String                                                   | User to whom the desktop belongs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| attach_user_infos   | Array of <a href="#">AttachInstancesUserInfo</a> objects | List of users to whom desktops have been assigned.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| product_id          | String                                                   | Product ID.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| share_resource_sku  | String                                                   | Desktop collaboration resource SKU code.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| root_volume         | <a href="#">VolumeDetail</a> object                      | System disk.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |



| Parameter           | Type                                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| data_volumes        | Array of <b>VolumeDetail</b> objects | Data disks.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| user_group          | String                               | User group to which the desktop user belongs. <ul style="list-style-type: none"> <li>• sudo: Linux administrator group.</li> <li>• default: Default Linux user group.</li> <li>• administrators: Windows administrator group. Administrators have full access to the desktop and can make any required changes except for forbidden operations.</li> <li>• users: standard Windows user group. Standard users can use most software programs and change system settings that do not affect other users.</li> </ul> |
| availability_zone   | String                               | AZ.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| site_type           | String                               | Site type.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| site_name           | String                               | Site name.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| product             | <b>ProductInfo</b> object            | Product information.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| ou_name             | String                               | Name of the OU to which the desktop is added during desktop creation.                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| os_version          | String                               | OS version.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| sid                 | String                               | SID.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| order_id            | String                               | Order ID of a yearly/monthly product.                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| tags                | Array of <b>Tag</b> objects          | Desktop tags.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| is_support_internet | Boolean                              | Whether to enable the Internet access. The options are <b>true</b> (yes) and <b>false</b> (no).                                                                                                                                                                                                                                                                                                                                                                                                                    |
| internet_mode       | String                               | Network access mode. <ul style="list-style-type: none"> <li>• NAT: indicates the NAT Internet access mode</li> <li>• EIP: indicates the EIP Internet access mode</li> <li>• BOTH: Both the Internet and EIP access modes are supported.</li> </ul>                                                                                                                                                                                                                                                                 |

| Parameter             | Type             | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| internet_mode_list    | Array of strings | Network access modes of desktops.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| is_attaching_eip      | Boolean          | Specifies whether an EIP is being bound to the desktop.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| attach_state          | String           | <p>Allocation status.</p> <ul style="list-style-type: none"> <li>• ATTACHED: allocated.</li> <li>• UNATTACH: Unassigned indicates that the session is not associated.</li> <li>• DEATTACHED: The VM has been unassigned.</li> <li>• ATTACHING: The VM is being allocated.</li> <li>• DEATTACHING: The VM is being unassigned.</li> <li>• ATTACHFAIL: The allocation fails.</li> <li>• DEATTACHFAIL: The VM fails to be unassigned.</li> <li>• WAITING: waiting to be assigned. This state describes the intermediate state from batch assignment (unassignment) to transfer to assignment (unassignment). In addition, this state facilitates the independence of a single association process.</li> <li>• ATTACH_FAIL_CAN_ATTACH_AGAIN : The VM fails to be assigned and can be associated again.</li> <li>• DEATTACH_FAIL_CAN_DEATTACH_AGAIN: The VM fails to be unassigned and can be unassigned again.</li> </ul> |
| enterprise_project_id | String           | Enterprise project ID.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| subnet_id             | String           | Subnet ID of the desktop.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| bill_resource_id      | String           | Billing resource ID of the desktop.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| process               | Integer          | Desktop task progress. The value ranges from 0 to 100, or is <b>null</b> . <b>null</b> indicates that there is no task on the desktop. The value from 0 to 100 indicates the task progress percentage.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| root_resource_id      | String           | Root resource ID of the desktop instance.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

| Parameter         | Type                                   | Description                            |
|-------------------|----------------------------------------|----------------------------------------|
| hour_package_info | <a href="#">HourPackageInfo</a> object | Hourly-billed desktop package details. |

**Table 4-340** AddressInfo

| Parameter               | Type   | Description                                                                                       |
|-------------------------|--------|---------------------------------------------------------------------------------------------------|
| addr                    | String | IP address.                                                                                       |
| version                 | String | IP address type. The value can be <b>4</b> (IPv4) or <b>6</b> (IPv6).                             |
| OS-EXT-IPS-MAC:mac_addr | String | MAC address.                                                                                      |
| OS-EXT-IPS:type         | String | IP address assignment method.<br>-fixed: a private IP address<br>-floating: a floating IP address |

**Table 4-341** FlavorInfo

| Parameter | Type                                            | Description                                                           |
|-----------|-------------------------------------------------|-----------------------------------------------------------------------|
| id        | String                                          | Flavor ID of the desktop.                                             |
| links     | Array of <a href="#">FlavorLinkInfo</a> objects | Shortcut link marker information of the corresponding desktop flavor. |

**Table 4-342** FlavorLinkInfo

| Parameter | Type   | Description                  |
|-----------|--------|------------------------------|
| rel       | String | Shortcut link marker name.   |
| href      | String | Corresponding shortcut link. |

**Table 4-343** SecurityGroupInfo

| Parameter | Type   | Description          |
|-----------|--------|----------------------|
| id        | String | Security group ID.   |
| name      | String | Security group name. |

**Table 4-344** AttachInstancesUserInfo

| Parameter  | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| user_id    | String | If <b>type</b> is set to <b>USER</b> , enter the user ID. If <b>type</b> is set to <b>GROUP</b> , enter the user group ID. The backend service checks whether the group ID exists.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| user_name  | String | <p>Name of the object assigned with a desktop. If <b>type</b> is set to <b>USER</b>, enter the username. If <b>type</b> is set to <b>GROUP</b>, enter the user group name.</p> <ul style="list-style-type: none"> <li>If <b>type</b> is set to <b>USER</b>, the value is the username of the desktop user. After the desktop is assigned, the user can log in to the desktop. Only letters, digits, hyphens (-), and underscores (_) are allowed. When the domain type is <b>LITE_AD</b>, the value contains 1 to 20 characters starting with a letter. When the domain type is <b>LOCAL_AD</b>, the value contains 1 to 64 characters starting with a letter or digit. A Windows desktop username can contain a maximum of 20 characters, and a Linux desktop username can contain a maximum of 64 characters. The backend service checks whether the username exists. The username cannot be the same as the desktop name.</li> <li>If <b>type</b> is set to <b>GROUP</b>, the value can contain only letters, digits, hyphens (-), and underscores (_).</li> </ul> |
| user_group | String | <p>Specifies the user group to which the desktop user belongs.</p> <ul style="list-style-type: none"> <li>sudo: Linux administrator group.</li> <li>default: default Linux user group.</li> <li>administrators: Windows administrator group. Administrators have full access to the desktop and can make any required changes except for forbidden operations.</li> <li>users: standard Windows user group. Standard users can use most software programs and change system settings that do not affect other users.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

| Parameter | Type   | Description                                                                                                                     |
|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| type      | String | Object type. Options: <ul style="list-style-type: none"> <li>• <b>USER</b>: user</li> <li>• <b>GROUP</b>: user group</li> </ul> |

**Table 4-345** VolumeDetail

| Parameter          | Type    | Description                                                                                                                                                                              |
|--------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| type               | String  | Desktop data disk type, which must be the same as the disk type provided by the system. <ul style="list-style-type: none"> <li>• SAS: High I/O</li> <li>• SSD: Ultra-high I/O</li> </ul> |
| size               | Integer | Disk capacity in GB.                                                                                                                                                                     |
| device             | String  | Directory to which the disk is mounted.                                                                                                                                                  |
| id                 | String  | Unique ID of the disk.                                                                                                                                                                   |
| volume_id          | String  | Disk ID.                                                                                                                                                                                 |
| bill_resource_id   | String  | Billing resource ID of the disk.                                                                                                                                                         |
| create_time        | String  | Time when the disk was created.                                                                                                                                                          |
| display_name       | String  | Disk name.                                                                                                                                                                               |
| resource_spec_code | String  | Specifications.                                                                                                                                                                          |

**Table 4-346** ProductInfo

| Parameter  | Type   | Description                                                                                                                                                                                                                |
|------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| product_id | String | Product ID.                                                                                                                                                                                                                |
| flavor_id  | String | Specifications ID.                                                                                                                                                                                                         |
| type       | String | Product type. <ul style="list-style-type: none"> <li>• <b>BASE</b>: basic product package. OS is the only commercial software product in the package. Only this type of package can be used for private images.</li> </ul> |
| cpu        | String | CPU.                                                                                                                                                                                                                       |

| Parameter           | Type    | Description                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| memory              | String  | Memory.                                                                                                                                                                                                                                                                                                                                                                                               |
| descriptions        | String  | Product description.                                                                                                                                                                                                                                                                                                                                                                                  |
| charge_mode         | String  | Billing type of the package. 1 indicates yearly/monthly billing, and 0 indicates pay-per-use billing.                                                                                                                                                                                                                                                                                                 |
| architecture        | String  | Product architecture.                                                                                                                                                                                                                                                                                                                                                                                 |
| is_gpu              | Boolean | Whether the specifications are of the GPU type.                                                                                                                                                                                                                                                                                                                                                       |
| package_type        | String  | Package type. <ul style="list-style-type: none"> <li>• <b>ultimate</b>: ultimate edition</li> <li>• <b>enterprise</b>: enterprise edition</li> <li>• <b>general</b>: general office edition</li> <li>• <b>workstation</b>: cloud workstation edition</li> <li>• <b>dedicated</b>: dedicated edition</li> <li>• <b>solver</b>: solver edition</li> <li>• <b>agile</b>: agile office edition</li> </ul> |
| system_disk_type    | String  | System disk type.                                                                                                                                                                                                                                                                                                                                                                                     |
| system_disk_size    | String  | System disk size.                                                                                                                                                                                                                                                                                                                                                                                     |
| contain_data_disk   | Boolean | Whether data disks are included in the package billing. <b>off</b> indicates no.                                                                                                                                                                                                                                                                                                                      |
| resource_type       | String  | Resource type.                                                                                                                                                                                                                                                                                                                                                                                        |
| cloud_service_type  | String  | Cloud service type.                                                                                                                                                                                                                                                                                                                                                                                   |
| volume_product_type | String  | Disk type.                                                                                                                                                                                                                                                                                                                                                                                            |
| status              | String  | The status can be <b>normal</b> (by default, on sale), <b>sellout</b> (sold out), and <b>abandon</b> (unavailable).                                                                                                                                                                                                                                                                                   |

**Table 4-347** Tag

| Parameter | Type   | Description                                                                                                                                                                                                                                                                       |
|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| key       | String | Specifies the tag key. This parameter cannot be left blank and can contain a maximum of 128 Unicode characters. The value can contain uppercase letters, lowercase letters, digits, hyphens (-), and underscores (_). The value cannot contain the following characters: =*<>, /. |
| value     | String | Value of a tag, which can contain a maximum of 43 Unicode characters. The value can contain uppercase letters, lowercase letters, digits, hyphens (-), and underscores (_). The value cannot contain the following characters: =*<>, /.                                           |

**Table 4-348** HourPackageInfo

| Parameter                  | Type    | Description                                                                                                                                         |
|----------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| root_order_id              | String  | Root order ID of the hourly-billed package.                                                                                                         |
| package_resource_id        | String  | Resource ID of the hourly-billed package.                                                                                                           |
| package_instance_id        | String  | Instance ID of the hourly-billed package.                                                                                                           |
| package_spec_code          | String  | specCode of the hourly-billed package.                                                                                                              |
| combined_product_type_code | String  | resourceTypeCode of the offering portfolio.                                                                                                         |
| use_up_policy              | String  | Hourly-billed package exhaustion policy. <b>SHUTDOWN_OR_HIBERNATE</b> : automatic shutdown or hibernation; <b>PAY_PER_USE</b> : pay-per-use billing |
| package_duration           | Integer | Total duration of the hourly-billed package.                                                                                                        |
| use_duration               | Integer | Used duration of the hourly-billed package.                                                                                                         |

**Status code: 400**

**Table 4-349** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-350** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-351** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |



**Status code: 404****Table 4-352** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-353** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Example Requests**

```
/v2/0bec5db98280d2d02fd6c00c2de791ce/desktops/a130ab3a-72bf-4b71-baa9-af4987c8e338
```

**Example Responses****Status code: 200**

Normal.

```
{
 "desktop" : {
 "desktop_id" : "cb783682-323a-43fa-9f70-3e87eed5524",
 "computer_name" : "tkms-test",
 "os_host_name" : "tkms-test",
 "addresses" : {
 "3596ca3f-0ea0-48ff-8010-3c87e72d9726" : [{
 "osextipsmacmacAddr" : "fa:16:3e:36:b9:a8",
 "osextipstype" : "fixed",

```

```

"addr" : "172.16.147.130",
"version" : "4",
"OS-EXT-IPS-MAC:mac_addr" : "fa:16:3e:36:b9:a8",
"OS-EXT-IPS:type" : "fixed"
}],
"016842ec-3d5e-41bd-8ef6-6b34acbec67e" : [{
 "osextipsmacmacAddr" : "fa:16:3e:98:4a:ed",
 "osextipstype" : "fixed",
 "addr" : "172.26.204.111",
 "version" : "4",
 "OS-EXT-IPS-MAC:mac_addr" : "fa:16:3e:98:4a:ed",
 "OS-EXT-IPS:type" : "fixed"
}]
},
"ip_addresses" : ["172.16.147.130", "172.26.204.111"],
"ipv4" : "172.16.147.130",
"ipv6" : "",
"user_list" : [],
"user_group_list" : [],
"desktop_type" : "DEDICATED",
"metadata" : {
 "image_name" : "WKS_WIN1064_UserImage",
 "metering.resourcespeccode" : "p1.2xlarge.8.win",
 "charging_mode" : "0",
 "metering.image_id" : "cc3bbc0b-9441-461b-b80b-48c52f3aed08",
 "metering.resourcetype" : "1",
 "os_type" : "Windows",
 "os_bit" : "64",
 "bill_resource_id" : "cb783682-323a-43fa-9f70-3e87eed5524.workspace",
 "desktop_os_version" : "Version2009(OS Build 19041.1288)"
},
"flavor" : {
 "id" : "p1.2xlarge.8",
 "links" : []
},
"status" : "ACTIVE",
"task_status" : "",
"in_maintenance_mode" : false,
"created" : "2025-05-23T08:18:18.920Z",
"security_groups" : [{
 "id" : "ff2c8d48-c32a-4d25-8566-1d1db9119037",
 "name" : "WorkspaceUserSecurityGroup"
}],
"login_status" : "REGISTERED",
"product_id" : "workspace.x86.ultimate.2xlarge4",
"root_volume" : {
 "type" : "SAS",
 "size" : 80,
 "device" : "/dev/vda",
 "id" : "76019ba137ae11f0ade6fa163e5a5e29",
 "volume_id" : "01643d58-af97-46f8-86c5-5c04cc2f23b4",
 "bill_resource_id" : "01643d58-af97-46f8-86c5-5c04cc2f23b4",
 "create_time" : "2025-05-23T08:18:09.213Z",
 "display_name" : "tkms-test-volume-0000",
 "resource_spec_code" : "workspace.volume.high"
},
"data_volumes" : [{
 "type" : "SAS",
 "size" : 10,
 "device" : "/dev/vdb",
 "id" : "7602c15137ae11f0ade6fa163e5a5e29",
 "volume_id" : "fe83ce9c-1556-41e3-a0c5-c9f978a3e0e8",
 "bill_resource_id" : "fe83ce9c-1556-41e3-a0c5-c9f978a3e0e8",
 "create_time" : "2025-05-23T08:18:09.220Z",
 "display_name" : "tkms-test-volume-0001",
 "resource_spec_code" : "workspace.volume.high"
}],
"availability_zone" : "cn-north-7b",
"site_type" : "CENTER",

```

```

"site_name": "Huawei Cloud Central Site",
"product": {
 "product_id": "workspace.x86.ultimate.2xlarge4",
 "flavor_id": "p1.2xlarge.8",
 "type": "BASE",
 "cpu": "8",
 "memory": "32768",
 "descriptions": "Ultimate | 8 vCPUs | 32 GB memory",
 "charge_mode": "1",
 "architecture": "x86",
 "is_gpu": false,
 "package_type": "ultimate",
 "system_disk_type": "SAS",
 "system_disk_size": "140",
 "contain_data_disk": false,
 "resource_type": "hws.resource.type.workspace.desktop",
 "cloud_service_type": "hws.service.type.vdi",
 "volume_product_type": "workspace",
 "status": "normal"
},
"os_version": "Version2009(OS Build 19041.1288)",
"sid": "103fd06b-0b51-4a38-b322-ef48bf3010c6",
"tags": [],
"platform_kind": 2,
"is_support_internet": true,
"internet_mode_list": ["EIP"],
"is_attaching_eip": false,
"attach_state": "UNATTACH",
"enterprise_project_id": "0",
"subnet_id": "c7f30df4-f3ac-4807-9599-18950b05455f",
"bill_resource_id": "cb783682-323a-43fa-9f70-3e87eed5524"
}
}

```

## Status Codes

| Status Code | Description                                                                                           |
|-------------|-------------------------------------------------------------------------------------------------------|
| 200         | Normal.                                                                                               |
| 400         | The request cannot be understood by the server due to malformed syntax.                               |
| 401         | Authentication failed.                                                                                |
| 403         | No operation permissions.                                                                             |
| 404         | No resources found.                                                                                   |
| 500         | An internal service error occurred. For details about the error code, see the error code description. |

## Error Codes

See [Error Codes](#).

## 4.3.6 Deletes desktops in batches

### Function

Deletes desktops in batches. The deleted desktops cannot be restored.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

POST /v2/{project\_id}/desktops/batch-delete

**Table 4-354** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

### Request Parameters

**Table 4-355** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                 |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API that is used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | No        | String | MIME type of the request body.                                                                                                                                              |

**Table 4-356** Request body parameters

| Parameter   | Mandatory | Type             | Description                        |
|-------------|-----------|------------------|------------------------------------|
| desktop_ids | Yes       | Array of strings | IDs of the desktops to be deleted. |

| Parameter          | Mandatory | Type    | Description                                                                                                                                                                                   |
|--------------------|-----------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| delete_users       | No        | Boolean | After a desktop is deleted, if the current user does not have other desktops, the desktop user can be deleted. The options are true (yes) and false (no). The default value is <b>false</b> . |
| email_notification | No        | Boolean | Whether to send an email notification. The options are true (yes) and false (no). The default value is <b>true</b> .                                                                          |
| is_force_delete    | No        | Boolean | Whether to perform force deletion or not. <b>true</b> : yes; <b>false</b> : no                                                                                                                |

## Response Parameters

**Status code: 202**

**Table 4-357** Response body parameters

| Parameter | Type   | Description |
|-----------|--------|-------------|
| job_id    | String | Task ID.    |

**Status code: 400**

**Table 4-358** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401**

**Table 4-359** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-360** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-361** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 409****Table 4-362** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-363** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Example Requests**

```
{
 "desktop_ids" : ["1d81c1dc-312b-4621-b778-bac3a1336442", "34e25501-fd50-42b5-97ca-f4c5bb7b09b0"]
}
```

**Example Responses****Status code: 202**

Normal.

```
{
 "job_id" : "abc85365-0b2e-4b4f-a091-f7db72072d4b"
}
```

## Status Codes

| Status Code | Description                                                                                           |
|-------------|-------------------------------------------------------------------------------------------------------|
| 202         | Normal.                                                                                               |
| 400         | The request cannot be understood by the server due to malformed syntax.                               |
| 401         | Authentication failed.                                                                                |
| 403         | No operation permissions.                                                                             |
| 404         | No resources found.                                                                                   |
| 409         | Operation conflict.                                                                                   |
| 500         | An internal service error occurred. For details about the error code, see the error code description. |

## Error Codes

See [Error Codes](#).

### 4.3.7 Deregistering Desktops in Batches

#### Function

Deregister desktops in batches.

#### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

#### URI

POST /v2/{project\_id}/desktops/logoff

**Table 4-364** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |



## Request Parameters

**Table 4-365** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                 |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API that is used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | No        | String | MIME type of the request body.                                                                                                                                              |

**Table 4-366** Request body parameters

| Parameter   | Mandatory | Type             | Description                                                             |
|-------------|-----------|------------------|-------------------------------------------------------------------------|
| desktop_ids | No        | Array of strings | Computer IDs.                                                           |
| message     | No        | String           | Message sent to a user when a desktop deregistration task is delivered. |

## Response Parameters

**Status code: 200**

Normal, no response body.

**Status code: 400**

**Table 4-367** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-368** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-369** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-370** Response body parameters

| Parameter    | Type   | Description                                 |
|--------------|--------|---------------------------------------------|
| error_code   | String | Error code, which is returned upon failure. |
| error_msg    | String | Error description.                          |
| error_detail | String | Error details.                              |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 409****Table 4-371** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-372** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Example Requests**

```
{
 "desktop_ids": ["string"],
 "message": "string"
}
```

## Example Responses

None

## Status Codes

| Status Code | Description                                                                                           |
|-------------|-------------------------------------------------------------------------------------------------------|
| 200         | Normal, no response body.                                                                             |
| 400         | The request cannot be understood by the server due to malformed syntax.                               |
| 401         | Authentication failed.                                                                                |
| 403         | No operation permissions.                                                                             |
| 404         | No resources found.                                                                                   |
| 409         | Operation conflict.                                                                                   |
| 500         | An internal service error occurred. For details about the error code, see the error code description. |

## Error Codes

See [Error Codes](#).

### 4.3.8 Queries the desktop details list

#### Function

Queries the desktop details list.

#### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

#### URI

GET /v2/{project\_id}/desktops/detail

**Table 4-373** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

**Table 4-374** Query Parameters

| Parameter     | Mandatory | Type             | Description                                                                                                                                                                                                     |
|---------------|-----------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| status        | No        | String           | Desktop status. <ul style="list-style-type: none"> <li>● <b>ACTIVE</b>: running</li> <li>● <b>SHUTOFF</b>: shut down</li> <li>● <b>ERROR</b>: abnormal</li> <li>● <b>HIBERNATED</b>: hibernated</li> </ul>      |
| user_name     | No        | String           | Specifies the user to which the desktop belongs. This parameter is invalid when user_names is transferred.                                                                                                      |
| user_names    | No        | Array of strings | Specifies the user to which the desktop belongs. A maximum of 100 users can be filtered in batches.                                                                                                             |
| sort_field    | No        | String           | Sorting field name, which must be used together with the sort_type field. <ul style="list-style-type: none"> <li>● created: indicates the creation time.</li> <li>● computer_name: desktop name.</li> </ul>     |
| sort_type     | No        | String           | Sorting type. The default value is ascending. This parameter must be used together with sort_field. <ul style="list-style-type: none"> <li>● ASC ascending order.</li> <li>● DESC: descending order.</li> </ul> |
| computer_name | No        | String           | Computer name.                                                                                                                                                                                                  |
| desktop_ip    | No        | String           | Desktop IP address.                                                                                                                                                                                             |
| offset        | No        | Integer          | Start position for pagination query. The value starts from 0.                                                                                                                                                   |
| limit         | No        | Integer          | Pagination query. The value ranges from 0 to 500 and defaults to 500.                                                                                                                                           |
| desktop_id    | No        | Array of strings | Desktop ID.                                                                                                                                                                                                     |

| Parameter             | Mandatory | Type    | Description                                                                                                                                                                                                                                                                                        |
|-----------------------|-----------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| desktop_type          | No        | String  | Desktop type. If this parameter is left empty, all desktops are queried. <ul style="list-style-type: none"> <li>• <b>DEDICATED</b>: common desktops, including exclusive desktops and dedicated desktops.</li> <li>• <b>POOLED</b>: pooled desktop, that is, desktop in a desktop pool.</li> </ul> |
| tag                   | No        | String  | Desktop tag. Examples are as follows: <ul style="list-style-type: none"> <li>• key1=value1</li> <li>• key1=value1,key2=value2</li> </ul>                                                                                                                                                           |
| pool_id               | No        | String  | Desktop pool ID. Use commas (,) to separate multiple desktop pool IDs.                                                                                                                                                                                                                             |
| user_attached         | No        | Boolean | Whether a desktop is assigned to a user.                                                                                                                                                                                                                                                           |
| enterprise_project_id | No        | String  | Enterprise project ID.                                                                                                                                                                                                                                                                             |
| image_id              | No        | String  | Image ID.                                                                                                                                                                                                                                                                                          |
| charge_mode           | No        | String  | Billing mode. The value can be <b>0</b> (monthly) or <b>1</b> (pay-per-use).                                                                                                                                                                                                                       |
| in_maintenance_mode   | No        | Boolean | Filters by maintenance mode.                                                                                                                                                                                                                                                                       |
| is_share_desktop      | No        | Boolean | Whether the desktop is a collaborative desktop.                                                                                                                                                                                                                                                    |
| subnet_id             | No        | String  | Subnet ID of the desktop.                                                                                                                                                                                                                                                                          |
| is_support_internet   | No        | Boolean | Whether network access is supported.                                                                                                                                                                                                                                                               |
| availability_zone     | No        | String  | Queries AZs.                                                                                                                                                                                                                                                                                       |

## Request Parameters

**Table 4-375** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                 |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API that is used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | No        | String | MIME type of the request body.                                                                                                                                              |

## Response Parameters

**Status code: 200**

**Table 4-376** Response body parameters

| Parameter   | Type                                      | Description               |
|-------------|-------------------------------------------|---------------------------|
| desktops    | Array of <b>DesktopDetailInfo</b> objects | Desktop details list.     |
| total_count | Integer                                   | Total number of desktops. |

**Table 4-377** DesktopDetailInfo

| Parameter     | Type                                    | Description                             |
|---------------|-----------------------------------------|-----------------------------------------|
| desktop_id    | String                                  | Desktop ID.                             |
| computer_name | String                                  | Desktop name.                           |
| os_host_name  | String                                  | Computer name in the OS.                |
| addresses     | Map<String,Array< <b>AddressInfo</b> >> | Desktop IP addresses.                   |
| ip_addresses  | Array of strings                        | IP addresses.                           |
| ipv4          | String                                  | IPv4 address of the computer in the OS. |
| ipv6          | String                                  | IPv6 address of the computer in the OS. |

| Parameter       | Type                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| user_list       | Array of strings                  | User list.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| user_group_list | Array of strings                  | User group list.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| desktop_type    | String                            | Desktop type. <ul style="list-style-type: none"> <li>DEDICATED: a dedicated desktop</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| resource_type   | String                            | <b>resource_type</b> field, which indicates dedicated desktop ( <b>DEDICATED_DESKTOP</b> ), pooled desktop ( <b>POOLED_DESKTOP</b> ), rendering desktop ( <b>RENDER_DESKTOP</b> ), exclusive host ( <b>EXCLUSIVE_HOST</b> ), or shared desktop ( <b>SHARED_DESKTOP</b> ).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| metadata        | Map<String,String >               | Desktop metadata. <ul style="list-style-type: none"> <li><b>charging_mode</b>: billing mode of the package. <b>1</b> indicates yearly/monthly billing, and <b>0</b> indicates pay-per-use billing.</li> <li><b>image_name</b>: name of the image used to create a desktop</li> <li><b>bill_resource_id</b>: billing resource ID of the image</li> <li><b>metering.image_id</b>: image ID</li> <li><b>metering.resourcespeccode</b>: desktop resource code</li> <li><b>metering.resourcetype</b>: desktop resource type</li> <li><b>os_bit</b>: number of bits of the OS. The value can be <b>32</b> or <b>64</b>.</li> <li><b>os_type</b>: OS type. The value can be <b>Linux</b>, <b>Windows</b>, or <b>Others</b>.</li> <li><b>desktop_os_version</b>: OS version</li> </ul> |
| flavor          | <a href="#">FlavorInfo</a> object | Product information.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| status          | String                            | Desktop status.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |



| Parameter   | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| task_status | String | <p>Task status.</p> <ul style="list-style-type: none"> <li>• <b>scheduling</b>: Resources are being scheduled.</li> <li>• <b>block_device_mapping</b>: The disk is being prepared.</li> <li>• <b>networking</b>: The network is being prepared.</li> <li>• <b>spawning</b>: The task is being created internally.</li> <li>• <b>rebooting</b>: The system is being restarted.</li> <li>• <b>reboot_pending</b>: The task of system restart is being delivered.</li> <li>• <b>reboot_started</b>: The system is being restarted internally.</li> <li>• <b>rebooting_hard</b>: The system is being force restarted.</li> <li>• <b>reboot_pending_hard</b>: The task of force restart is being delivered.</li> <li>• <b>reboot_started_hard</b>: The system is being force restarted internally.</li> <li>• <b>rebuilding</b>: The system is being rebuilt.</li> <li>• <b>rebuild_block_device_mapping</b>: The system is being rebuilt and disks are being prepared.</li> <li>• <b>rebuild_spawning</b>: The system is being rebuilt internally.</li> <li>• <b>migrating</b>: Live migration is being performed.</li> <li>• <b>resize_prep</b>: The specifications are to be adjusted.</li> <li>• <b>resize_migrating</b>: The specifications are being adjusted and the migration is in progress.</li> <li>• <b>resize_migrated</b>: The specifications are being adjusted and the migration has been completed.</li> <li>• <b>resize_finish</b>: The specifications have been adjusted.</li> <li>• <b>resize_reverting</b>: The specification adjustment is being rolled back.</li> <li>• <b>powering-off</b>: The system is being powered off.</li> </ul> |

| Parameter           | Type                                                     | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     |                                                          | <ul style="list-style-type: none"> <li>● <b>powering-on</b>: The system is being powered on.</li> <li>● <b>deleting</b>: Deleting...</li> <li>● <b>deleteFailed</b>: Deletion failed.</li> <li>● <b>updating</b>: Updating...</li> <li>● <b>desktopNetworkChanging</b>: The network is being switched.</li> </ul>                                                                                                                                                                                                                                                                                                             |
| in_maintenance_mode | Boolean                                                  | Whether the desktop is in maintenance mode. The options are <b>true</b> (yes) and <b>false</b> (no).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| created             | String                                                   | Time when a desktop is created.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| security_groups     | Array of <a href="#">SecurityGroupInfo</a> objects       | Desktop security group.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| login_status        | String                                                   | <p>Login status of a desktop.</p> <ul style="list-style-type: none"> <li>● <b>UNREGISTER</b>: The desktop is not registered. After the desktop is started, it is automatically registered. After the desktop is shut down, it is unregistered.</li> <li>● <b>REGISTERED</b>: The desktop has been registered and is waiting for user connections.</li> <li>● <b>CONNECTED</b>: A user has logged in to a desktop and is using it.</li> <li>● <b>DISCONNECTED</b>: The desktop is disconnected from the client because the client window is closed or the networking between the client and desktop is interrupted.</li> </ul> |
| user_name           | String                                                   | User to whom the desktop belongs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| attach_user_infos   | Array of <a href="#">AttachInstancesUserInfo</a> objects | List of users to whom desktops have been assigned.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| product_id          | String                                                   | Product ID.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| share_resource_sku  | String                                                   | Desktop collaboration resource SKU code.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| root_volume         | <a href="#">VolumeDetail</a> object                      | System disk.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

| Parameter           | Type                                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| data_volumes        | Array of <b>VolumeDetail</b> objects | Data disks.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| user_group          | String                               | User group to which the desktop user belongs. <ul style="list-style-type: none"> <li>• sudo: Linux administrator group.</li> <li>• default: Default Linux user group.</li> <li>• administrators: Windows administrator group. Administrators have full access to the desktop and can make any required changes except for forbidden operations.</li> <li>• users: standard Windows user group. Standard users can use most software programs and change system settings that do not affect other users.</li> </ul> |
| availability_zone   | String                               | AZ.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| site_type           | String                               | Site type.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| site_name           | String                               | Site name.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| product             | <b>ProductInfo</b> object            | Product information.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| ou_name             | String                               | Name of the OU to which the desktop is added during desktop creation.                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| os_version          | String                               | OS version.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| sid                 | String                               | SID.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| order_id            | String                               | Order ID of a yearly/monthly product.                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| tags                | Array of <b>Tag</b> objects          | Desktop tags.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| is_support_internet | Boolean                              | Whether to enable the Internet access. The options are <b>true</b> (yes) and <b>false</b> (no).                                                                                                                                                                                                                                                                                                                                                                                                                    |
| internet_mode       | String                               | Network access mode. <ul style="list-style-type: none"> <li>• NAT: indicates the NAT Internet access mode</li> <li>• EIP: indicates the EIP Internet access mode</li> <li>• BOTH: Both the Internet and EIP access modes are supported.</li> </ul>                                                                                                                                                                                                                                                                 |

| Parameter             | Type             | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| internet_mode_list    | Array of strings | Network access modes of desktops.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| is_attaching_eip      | Boolean          | Specifies whether an EIP is being bound to the desktop.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| attach_state          | String           | Allocation status. <ul style="list-style-type: none"> <li>• ATTACHED: allocated.</li> <li>• UNATTACH: Unassigned indicates that the session is not associated.</li> <li>• DEATTACHED: The VM has been unassigned.</li> <li>• ATTACHING: The VM is being allocated.</li> <li>• DEATTACHING: The VM is being unassigned.</li> <li>• ATTACHFAIL: The allocation fails.</li> <li>• DEATTACHFAIL: The VM fails to be unassigned.</li> <li>• WAITING: waiting to be assigned. This state describes the intermediate state from batch assignment (unassignment) to transfer to assignment (unassignment). In addition, this state facilitates the independence of a single association process.</li> <li>• ATTACH_FAIL_CAN_ATTACH_AGAIN : The VM fails to be assigned and can be associated again.</li> <li>• DEATTACH_FAIL_CAN_DEATTACH_AGAIN: The VM fails to be unassigned and can be unassigned again.</li> </ul> |
| enterprise_project_id | String           | Enterprise project ID.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| subnet_id             | String           | Subnet ID of the desktop.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| bill_resource_id      | String           | Billing resource ID of the desktop.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| process               | Integer          | Desktop task progress. The value ranges from 0 to 100, or is <b>null</b> . <b>null</b> indicates that there is no task on the desktop. The value from 0 to 100 indicates the task progress percentage.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| root_resource_id      | String           | Root resource ID of the desktop instance.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

| Parameter         | Type                                   | Description                            |
|-------------------|----------------------------------------|----------------------------------------|
| hour_package_info | <a href="#">HourPackageInfo</a> object | Hourly-billed desktop package details. |

**Table 4-378** AddressInfo

| Parameter               | Type   | Description                                                                                       |
|-------------------------|--------|---------------------------------------------------------------------------------------------------|
| addr                    | String | IP address.                                                                                       |
| version                 | String | IP address type. The value can be <b>4</b> (IPv4) or <b>6</b> (IPv6).                             |
| OS-EXT-IPS-MAC:mac_addr | String | MAC address.                                                                                      |
| OS-EXT-IPS:type         | String | IP address assignment method.<br>-fixed: a private IP address<br>-floating: a floating IP address |

**Table 4-379** FlavorInfo

| Parameter | Type                                            | Description                                                           |
|-----------|-------------------------------------------------|-----------------------------------------------------------------------|
| id        | String                                          | Flavor ID of the desktop.                                             |
| links     | Array of <a href="#">FlavorLinkInfo</a> objects | Shortcut link marker information of the corresponding desktop flavor. |

**Table 4-380** FlavorLinkInfo

| Parameter | Type   | Description                  |
|-----------|--------|------------------------------|
| rel       | String | Shortcut link marker name.   |
| href      | String | Corresponding shortcut link. |

**Table 4-381** SecurityGroupInfo

| Parameter | Type   | Description          |
|-----------|--------|----------------------|
| id        | String | Security group ID.   |
| name      | String | Security group name. |

**Table 4-382** AttachInstancesUserInfo

| Parameter  | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| user_id    | String | If <b>type</b> is set to <b>USER</b> , enter the user ID. If <b>type</b> is set to <b>GROUP</b> , enter the user group ID. The backend service checks whether the group ID exists.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| user_name  | String | <p>Name of the object assigned with a desktop. If <b>type</b> is set to <b>USER</b>, enter the username. If <b>type</b> is set to <b>GROUP</b>, enter the user group name.</p> <ul style="list-style-type: none"> <li>If <b>type</b> is set to <b>USER</b>, the value is the username of the desktop user. After the desktop is assigned, the user can log in to the desktop. Only letters, digits, hyphens (-), and underscores (_) are allowed. When the domain type is <b>LITE_AD</b>, the value contains 1 to 20 characters starting with a letter. When the domain type is <b>LOCAL_AD</b>, the value contains 1 to 64 characters starting with a letter or digit. A Windows desktop username can contain a maximum of 20 characters, and a Linux desktop username can contain a maximum of 64 characters. The backend service checks whether the username exists. The username cannot be the same as the desktop name.</li> <li>If <b>type</b> is set to <b>GROUP</b>, the value can contain only letters, digits, hyphens (-), and underscores (_).</li> </ul> |
| user_group | String | <p>Specifies the user group to which the desktop user belongs.</p> <ul style="list-style-type: none"> <li>sudo: Linux administrator group.</li> <li>default: default Linux user group.</li> <li>administrators: Windows administrator group. Administrators have full access to the desktop and can make any required changes except for forbidden operations.</li> <li>users: standard Windows user group. Standard users can use most software programs and change system settings that do not affect other users.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

| Parameter | Type   | Description                                                                                                                     |
|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| type      | String | Object type. Options: <ul style="list-style-type: none"> <li>• <b>USER</b>: user</li> <li>• <b>GROUP</b>: user group</li> </ul> |

**Table 4-383** VolumeDetail

| Parameter          | Type    | Description                                                                                                                                                                              |
|--------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| type               | String  | Desktop data disk type, which must be the same as the disk type provided by the system. <ul style="list-style-type: none"> <li>• SAS: High I/O</li> <li>• SSD: Ultra-high I/O</li> </ul> |
| size               | Integer | Disk capacity in GB.                                                                                                                                                                     |
| device             | String  | Directory to which the disk is mounted.                                                                                                                                                  |
| id                 | String  | Unique ID of the disk.                                                                                                                                                                   |
| volume_id          | String  | Disk ID.                                                                                                                                                                                 |
| bill_resource_id   | String  | Billing resource ID of the disk.                                                                                                                                                         |
| create_time        | String  | Time when the disk was created.                                                                                                                                                          |
| display_name       | String  | Disk name.                                                                                                                                                                               |
| resource_spec_code | String  | Specifications.                                                                                                                                                                          |

**Table 4-384** ProductInfo

| Parameter  | Type   | Description                                                                                                                                                                                                                |
|------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| product_id | String | Product ID.                                                                                                                                                                                                                |
| flavor_id  | String | Specifications ID.                                                                                                                                                                                                         |
| type       | String | Product type. <ul style="list-style-type: none"> <li>• <b>BASE</b>: basic product package. OS is the only commercial software product in the package. Only this type of package can be used for private images.</li> </ul> |
| cpu        | String | CPU.                                                                                                                                                                                                                       |

| Parameter           | Type    | Description                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| memory              | String  | Memory.                                                                                                                                                                                                                                                                                                                                                                                               |
| descriptions        | String  | Product description.                                                                                                                                                                                                                                                                                                                                                                                  |
| charge_mode         | String  | Billing type of the package. 1 indicates yearly/monthly billing, and 0 indicates pay-per-use billing.                                                                                                                                                                                                                                                                                                 |
| architecture        | String  | Product architecture.                                                                                                                                                                                                                                                                                                                                                                                 |
| is_gpu              | Boolean | Whether the specifications are of the GPU type.                                                                                                                                                                                                                                                                                                                                                       |
| package_type        | String  | Package type. <ul style="list-style-type: none"> <li>• <b>ultimate</b>: ultimate edition</li> <li>• <b>enterprise</b>: enterprise edition</li> <li>• <b>general</b>: general office edition</li> <li>• <b>workstation</b>: cloud workstation edition</li> <li>• <b>dedicated</b>: dedicated edition</li> <li>• <b>solver</b>: solver edition</li> <li>• <b>agile</b>: agile office edition</li> </ul> |
| system_disk_type    | String  | System disk type.                                                                                                                                                                                                                                                                                                                                                                                     |
| system_disk_size    | String  | System disk size.                                                                                                                                                                                                                                                                                                                                                                                     |
| contain_data_disk   | Boolean | Whether data disks are included in the package billing. <b>off</b> indicates no.                                                                                                                                                                                                                                                                                                                      |
| resource_type       | String  | Resource type.                                                                                                                                                                                                                                                                                                                                                                                        |
| cloud_service_type  | String  | Cloud service type.                                                                                                                                                                                                                                                                                                                                                                                   |
| volume_product_type | String  | Disk type.                                                                                                                                                                                                                                                                                                                                                                                            |
| status              | String  | The status can be <b>normal</b> (by default, on sale), <b>sellout</b> (sold out), and <b>abandon</b> (unavailable).                                                                                                                                                                                                                                                                                   |



**Table 4-385** Tag

| Parameter | Type   | Description                                                                                                                                                                                                                                                                       |
|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| key       | String | Specifies the tag key. This parameter cannot be left blank and can contain a maximum of 128 Unicode characters. The value can contain uppercase letters, lowercase letters, digits, hyphens (-), and underscores (_). The value cannot contain the following characters: =*<>, /. |
| value     | String | Value of a tag, which can contain a maximum of 43 Unicode characters. The value can contain uppercase letters, lowercase letters, digits, hyphens (-), and underscores (_). The value cannot contain the following characters: =*<>, /.                                           |

**Table 4-386** HourPackageInfo

| Parameter                  | Type    | Description                                                                                                                                         |
|----------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| root_order_id              | String  | Root order ID of the hourly-billed package.                                                                                                         |
| package_resource_id        | String  | Resource ID of the hourly-billed package.                                                                                                           |
| package_instance_id        | String  | Instance ID of the hourly-billed package.                                                                                                           |
| package_spec_code          | String  | specCode of the hourly-billed package.                                                                                                              |
| combined_product_type_code | String  | resourceTypeCode of the offering portfolio.                                                                                                         |
| use_up_policy              | String  | Hourly-billed package exhaustion policy. <b>SHUTDOWN_OR_HIBERNATE</b> : automatic shutdown or hibernation; <b>PAY_PER_USE</b> : pay-per-use billing |
| package_duration           | Integer | Total duration of the hourly-billed package.                                                                                                        |
| use_duration               | Integer | Used duration of the hourly-billed package.                                                                                                         |

**Status code: 400**

**Table 4-387** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-388** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-389** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-390** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-391** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Example Requests**

```
/v2/0bec5db98280d2d02fd6c00c2de791ce/desktops/detail
```

**Example Responses****Status code: 200**

Response to the request for querying the cloud desktop details list.

```
{
 "desktops" : [{
 "desktop_id" : "cb783682-323a-43fa-9f70-3e87eed5524",
 "computer_name" : "tkms-test",
 "os_host_name" : "tkms-test",
 "addresses" : {
 "3596ca3f-0ea0-48ff-8010-3c87e72d9726" : [{
 "osextipsmacmacAddr" : "fa:16:3e:36:b9:a8",
 "osextipstype" : "fixed",
```

```

"addr" : "172.16.147.130",
"version" : "4",
"OS-EXT-IPS-MAC:mac_addr" : "fa:16:3e:36:b9:a8",
"OS-EXT-IPS:type" : "fixed"
}],
"016842ec-3d5e-41bd-8ef6-6b34acbec67e" : [{
 "osextipsmacmacAddr" : "fa:16:3e:98:4a:ed",
 "osextipstype" : "fixed",
 "addr" : "172.26.204.111",
 "version" : "4",
 "OS-EXT-IPS-MAC:mac_addr" : "fa:16:3e:98:4a:ed",
 "OS-EXT-IPS:type" : "fixed"
}]
},
"ip_addresses" : ["172.16.147.130", "172.26.204.111"],
"ipv4" : "172.16.147.130",
"ipv6" : "",
"user_list" : [],
"user_group_list" : [],
"desktop_type" : "DEDICATED",
"metadata" : {
 "image_name" : "WKS_WIN1064_UserImage",
 "metering.resourcespeccode" : "p1.2xlarge.8.win",
 "charging_mode" : "0",
 "metering.image_id" : "cc3bbc0b-9441-461b-b80b-48c52f3aed08",
 "metering.resourcetype" : "1",
 "os_type" : "Windows",
 "os_bit" : "64",
 "bill_resource_id" : "cb783682-323a-43fa-9f70-3e87eed5524.workspace",
 "desktop_os_version" : "Version2009(OS Build 19041.1288)"
},
"flavor" : {
 "id" : "p1.2xlarge.8",
 "links" : []
},
"status" : "ACTIVE",
"task_status" : "",
"in_maintenance_mode" : false,
"created" : "2025-05-23T08:18:18.920Z",
"login_status" : "REGISTERED",
"product_id" : "workspace.x86.ultimate.2xlarge4",
"root_volume" : {
 "type" : "SAS",
 "size" : 80,
 "device" : "/dev/vda",
 "id" : "76019ba137ae11f0ade6fa163e5a5e29",
 "volume_id" : "01643d58-af97-46f8-86c5-5c04cc2f23b4",
 "bill_resource_id" : "01643d58-af97-46f8-86c5-5c04cc2f23b4",
 "create_time" : "2025-05-23T08:18:09.213Z",
 "display_name" : "tkms-test-volume-0000",
 "resource_spec_code" : "workspace.volume.high"
},
"data_volumes" : [{
 "type" : "SAS",
 "size" : 10,
 "device" : "/dev/vdb",
 "id" : "7602c15137ae11f0ade6fa163e5a5e29",
 "volume_id" : "fe83ce9c-1556-41e3-a0c5-c9f978a3e0e8",
 "bill_resource_id" : "fe83ce9c-1556-41e3-a0c5-c9f978a3e0e8",
 "create_time" : "2025-05-23T08:18:09.220Z",
 "display_name" : "tkms-test-volume-0001",
 "resource_spec_code" : "workspace.volume.high"
}],
"availability_zone" : "cn-north-7b",
"site_type" : "CENTER",
"site_name" : "Huawei Cloud Central Site",
"product" : {
 "product_id" : "workspace.x86.ultimate.2xlarge4",
 "flavor_id" : "p1.2xlarge.8",

```

```

"type" : "BASE",
"cpu" : "8",
"memory" : "32768",
"descriptions" : "Ultimate | 8 vCPUs | 32 GB memory",
"charge_mode" : "1",
"architecture" : "x86",
"is_gpu" : false,
"package_type" : "ultimate",
"system_disk_type" : "SAS",
"system_disk_size" : "140",
"contain_data_disk" : false,
"resource_type" : "hws.resource.type.workspace.desktop",
"cloud_service_type" : "hws.service.type.vdi",
"volume_product_type" : "workspace",
"status" : "normal"
},
"os_version" : "Version2009(OS Build 19041.1288)",
"sid" : "103fd06b-0b51-4a38-b322-ef48bf3010c6",
"tags" : [],
"is_support_internet" : true,
"internet_mode_list" : ["EIP"],
"is_attaching_eip" : false,
"attach_state" : "UNATTACH",
"enterprise_project_id" : "0",
"subnet_id" : "c7f30df4-f3ac-4807-9599-18950b05455f",
"bill_resource_id" : "cb783682-323a-43fa-9f70-3e87eeed5524"
}],
"total_count" : 1
}

```

## Status Codes

| Status Code | Description                                                                                           |
|-------------|-------------------------------------------------------------------------------------------------------|
| 200         | Response to the request for querying the cloud desktop details list.                                  |
| 400         | The request cannot be understood by the server due to malformed syntax.                               |
| 401         | Authentication failed.                                                                                |
| 403         | No operation permissions.                                                                             |
| 404         | No resources found.                                                                                   |
| 500         | An internal service error occurred. For details about the error code, see the error code description. |

## Error Codes

See [Error Codes](#).

### 4.3.9 Performs operations on the desktop

#### Function

Starts, shuts down, hibernates, and restarts desktops in batches.

## Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

## URI

POST /v2/{project\_id}/desktops/action

**Table 4-392** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

## Request Parameters

**Table 4-393** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                 |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API that is used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | No        | String | MIME type of the request body.                                                                                                                                              |

**Table 4-394** Request body parameters

| Parameter   | Mandatory | Type             | Description                                                                                                                                                                                                                             |
|-------------|-----------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| desktop_ids | Yes       | Array of strings | Desktop IDs.                                                                                                                                                                                                                            |
| op_type     | Yes       | String           | Operation type. <ul style="list-style-type: none"> <li>os-start: starting the computer</li> <li>reboot: restarting the computer</li> <li>os-stop: shutting down the computer</li> <li>os-hibernate: hibernating the computer</li> </ul> |

| Parameter | Mandatory | Type   | Description                                                                                                                                                                         |
|-----------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| type      | No        | String | SOFT: common operation; HARD: forcible operation. For example, if <b>type</b> is set to <b>HARD</b> and <b>op_type</b> is set to <b>os-stop</b> , the computer is forcibly stopped. |

## Response Parameters

**Status code: 200**

**Table 4-395** Response body parameters

| Parameter             | Type                                    | Description                                                                       |
|-----------------------|-----------------------------------------|-----------------------------------------------------------------------------------|
| failed_operation_list | Array of <b>VmOperateResult</b> objects | Desktops on which operations failed.                                              |
| job_id                | String                                  | Specifies the task ID. This parameter is returned when the cold migration starts. |

**Table 4-396** VmOperateResult

| Parameter    | Type   | Description                     |
|--------------|--------|---------------------------------|
| desktop_id   | String | Desktop ID.                     |
| desktop_name | String | Desktop name.                   |
| error_code   | String | Error code.                     |
| error_msg    | String | Cause of the operation failure. |

**Status code: 400**

**Table 4-397** Response body parameters

| Parameter    | Type   | Description                                 |
|--------------|--------|---------------------------------------------|
| error_code   | String | Error code, which is returned upon failure. |
| error_msg    | String | Error description.                          |
| error_detail | String | Error details.                              |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-398** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-399** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404**



**Table 4-400** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 409****Table 4-401** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-402** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

## Example Requests

```
{
 "desktop_ids" : ["f77db5cd-c020-47d4-bbbe-9b979a38d18c", "f77db5cd-c020-47d4-
bbbe-9b979a38d18b"],
 "op_type" : "os-stop",
 "type" : "SOFT"
}
```

## Example Responses

**Status code: 200**

Normal.

```
{
 "job_id" : "abc85365-0b2e-4b4f-a091-f7db72072d4b"
}
```

## Status Codes

| Status Code | Description                                                                                           |
|-------------|-------------------------------------------------------------------------------------------------------|
| 200         | Normal.                                                                                               |
| 400         | The request cannot be understood by the server due to malformed syntax.                               |
| 401         | Authentication failed.                                                                                |
| 403         | No operation permissions.                                                                             |
| 404         | No resources found.                                                                                   |
| 409         | Operation conflict.                                                                                   |
| 500         | An internal service error occurred. For details about the error code, see the error code description. |

## Error Codes

See [Error Codes](#).

### 4.3.10 Modifies specifications

#### Function

Only the CPU and memory can be modified. The disks cannot be changed, and the specifications can only be changed to different ones.

#### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

## URI

POST /v2/{project\_id}/desktops/resize

**Table 4-403** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

## Request Parameters

**Table 4-404** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                 |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API that is used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | No        | String | MIME type of the request body.                                                                                                                                              |

**Table 4-405** Request body parameters

| Parameter  | Mandatory | Type                                               | Description                                                                                                                                                                                                          |
|------------|-----------|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| desktops   | Yes       | Array of <a href="#">ResizeDesktopData</a> objects | Desktop data. The on-demand desktops can be changed to the same specifications in batches.                                                                                                                           |
| product_id | Yes       | String                                             | Package ID. For a batch operation, VMs of the same specifications are used.                                                                                                                                          |
| mode       | Yes       | String                                             | Whether specifications can be modified when the desktop is started. The value is fixed to <b>STOP_DESKTOP</b> . If the desktop has been started, the desktop will be stopped before the specifications are modified. |

| Parameter      | Mandatory | Type   | Description                                                                                                                                                                                                                          |
|----------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| auto_placement | No        | String | Whether to enable automatic placement. This parameter is used when the specifications of a DeH desktop are changed. The default value is <b>off</b> (disabled). You can change the value to <b>on</b> to enable automatic placement. |

**Table 4-406** ResizeDesktopData

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| desktop_id | No        | String | Desktop ID. |

## Response Parameters

**Status code: 200**

**Table 4-407** Response body parameters

| Parameter | Type                                                      | Description                                                                                                                                                                               |
|-----------|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| jobs      | Array of <a href="#">ResizeDesktopJobResponse</a> objects | Specifies the task information returned when the specifications of a pay-per-use desktop are changed. (The <b>jobs</b> field will be brought offline later. Use the <b>job_id</b> field.) |
| job_id    | String                                                    | Specifies the ID of the specification modification task.                                                                                                                                  |

**Table 4-408** ResizeDesktopJobResponse

| Parameter  | Type   | Description |
|------------|--------|-------------|
| desktop_id | String | Desktop ID. |
| job_id     | String | Task ID.    |

**Status code: 202**

**Table 4-409** Response body parameters

| Parameter | Type                                                      | Description                                                                                                                                                                               |
|-----------|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| jobs      | Array of <a href="#">ResizeDesktopJobResponse</a> objects | Specifies the task information returned when the specifications of a pay-per-use desktop are changed. (The <b>jobs</b> field will be brought offline later. Use the <b>job_id</b> field.) |
| job_id    | String                                                    | Specifies the ID of the specification modification task.                                                                                                                                  |

**Table 4-410** ResizeDesktopJobResponse

| Parameter  | Type   | Description |
|------------|--------|-------------|
| desktop_id | String | Desktop ID. |
| job_id     | String | Task ID.    |

**Status code: 400****Table 4-411** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-412** Response body parameters

| Parameter  | Type   | Description                                 |
|------------|--------|---------------------------------------------|
| error_code | String | Error code, which is returned upon failure. |
| error_msg  | String | Error description.                          |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-413** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-414** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 409**

**Table 4-415** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-416** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

## Example Requests

```
POST /v2/0bec5db98280d2d02fd6c00c2de791ce/desktops/resize
{
 "desktops": [{
 "desktop_id": "538946c2-7ff8-4444-b1bd-e9a1f8137b81"
 }],
 "product_id": "workspace.k.xlarge.2.linux",
 "mode": "STOP_DESKTOP"
}
```

## Example Responses

**Status code: 200**

Response to the request for modifying specifications.

```
{
 "job_id": "c566b960-69d1-44ec-9397-2172fdd01xxx",
 "jobs": [{
 "desktop_id": "c566b960-69d1-44ec-9397-2172fdd015d9",
```

```

 "job_id" : "41162624-ba52-42f3-bdda-15c6d345ff60"
 }]
}

```

**Status code: 202**

Response to the request for modifying specifications.

```

{
 "job_id" : "c566b960-69d1-44ec-9397-2172fdd01xxx",
 "jobs" : [{
 "desktop_id" : "c566b960-69d1-44ec-9397-2172fdd015d9",
 "job_id" : "41162624-ba52-42f3-bdda-15c6d345ff60"
 }]
}

```

**Status Codes**

| Status Code | Description                                                                                           |
|-------------|-------------------------------------------------------------------------------------------------------|
| 200         | Response to the request for modifying specifications.                                                 |
| 202         | Response to the request for modifying specifications.                                                 |
| 400         | The request cannot be understood by the server due to malformed syntax.                               |
| 401         | Authentication failed.                                                                                |
| 403         | No operation permissions.                                                                             |
| 404         | No resources found.                                                                                   |
| 409         | Operation conflict.                                                                                   |
| 500         | An internal service error occurred. For details about the error code, see the error code description. |

**Error Codes**

See [Error Codes](#).

**4.3.11 Rebuilding a Desktop****Function**

Recomposes desktop system disks in batches.

**Debugging**

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

**URI**

POST /v2/{project\_id}/desktops/rebuild



**Table 4-417** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

## Request Parameters

**Table 4-418** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                 |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API that is used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | No        | String | MIME type of the request body.                                                                                                                                              |

**Table 4-419** Request body parameters

| Parameter   | Mandatory | Type             | Description                                                                                                                                       |
|-------------|-----------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| desktop_ids | Yes       | Array of strings | Desktop IDs.                                                                                                                                      |
| image_type  | Yes       | String           | Image type.                                                                                                                                       |
| image_id    | Yes       | String           | Template ID.                                                                                                                                      |
| os_type     | No        | String           | OS type.                                                                                                                                          |
| delay_time  | No        | Integer          | Time reserved for users to save data during immediate recomposing (unit: minute).                                                                 |
| message     | No        | String           | Message sent to the user when a system disk recomposing task is delivered.                                                                        |
| order_id    | No        | String           | Order ID, which is used to recompose the system disk of a yearly/monthly-billed desktop. This parameter is mandatory when billed images are used. |

| Parameter             | Mandatory | Type   | Description                                          |
|-----------------------|-----------|--------|------------------------------------------------------|
| enterprise_project_id | No        | String | Enterprise project ID, which is <b>0</b> by default. |

## Response Parameters

**Status code: 200**

**Table 4-420** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |
| job_id                        | String | ID of the system disk recomposing task.                                                                                         |

**Status code: 400**

**Table 4-421** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401**

**Table 4-422** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-423** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-424** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 409****Table 4-425** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-426** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Example Requests**

```
{
 "desktop_ids": ["string"],
 "image_type": "string",
 "image_id": "string",
 "os_type": "string",
 "delay_time": 2147483647,
 "message": "string",
 "order_id": "string",
 "enterprise_project_id": "0"
}
```

**Example Responses****Status code: 200**

Normal.

```
{
 "job_id" : "string"
}
```

## Status Codes

| Status Code | Description                                                                      |
|-------------|----------------------------------------------------------------------------------|
| 200         | Normal.                                                                          |
| 400         | The request cannot be understood by the server due to malformed syntax.          |
| 401         | Authentication failed.                                                           |
| 403         | No operation permissions.                                                        |
| 404         | No resources found.                                                              |
| 409         | Operation conflict.                                                              |
| 500         | An internal service error occurred. For details, see the error code description. |

## Error Codes

See [Error Codes](#).

### 4.3.12 Querying Desktop Power-On/Off Data

#### Function

Queries desktop power-on/off data.

#### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

#### URI

GET /v2/{project\_id}/desktops/{desktop\_id}/actions

**Table 4-427** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |
| desktop_id | Yes       | String | Desktop ID. |

**Table 4-428** Query Parameters

| Parameter | Mandatory | Type    | Description                             |
|-----------|-----------|---------|-----------------------------------------|
| offset    | No        | Integer | Maximum number of records on each page. |
| limit     | No        | Integer | Start position.                         |

## Request Parameters

**Table 4-429** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                 |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API that is used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | No        | String | MIME type of the request body.                                                                                                                                              |

## Response Parameters

Status code: 200

**Table 4-430** Response body parameters

| Parameter       | Type                                  | Description                           |
|-----------------|---------------------------------------|---------------------------------------|
| desktop_actions | Array of <b>DesktopAction</b> objects | Desktop startup and shutdown records. |
| total_count     | Integer                               | Total number.                         |

**Table 4-431** DesktopAction

| Parameter  | Type   | Description                  |
|------------|--------|------------------------------|
| action     | String | Operation.                   |
| message    | String | Operation completion status. |
| start_time | String | Start time.                  |

| Parameter   | Type   | Description    |
|-------------|--------|----------------|
| finish_time | String | End time.      |
| result      | String | Result.        |
| traceback   | String | Error message. |

**Status code: 400****Table 4-432** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-433** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403**

**Table 4-434** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-435** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-436** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |



## Example Requests

None

## Example Responses

**Status code: 200**

Normal.

```
{
 "desktop_actions": [{
 "action": "stop",
 "start_time": "2022-05-07T07:20:08.341609",
 "finish_time": "2022-05-07T07:20:09.265125",
 "result": "Success"
 }],
 "total_count": 1
}
```

## Status Codes

| Status Code | Description                                                                      |
|-------------|----------------------------------------------------------------------------------|
| 200         | Normal.                                                                          |
| 400         | The request cannot be understood by the server due to malformed syntax.          |
| 401         | Authentication failed.                                                           |
| 403         | No operation permissions.                                                        |
| 404         | No resources found.                                                              |
| 500         | An internal service error occurred. For details, see the error code description. |

## Error Codes

See [Error Codes](#).

### 4.3.13 Querying Desktop Monitoring Data

#### Function

Queries data (such as the CPU usage, memory usage, and period when a user is online) of a desktop in a time range (from 1 hour to 30 days). The data can be retained for up to 180 days.

#### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

## URI

GET /v2/{project\_id}/desktop-monitor/{desktop\_id}

**Table 4-437** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |
| desktop_id | Yes       | String | Desktop ID. |

**Table 4-438** Query Parameters

| Parameter  | Mandatory | Type   | Description                                                                           |
|------------|-----------|--------|---------------------------------------------------------------------------------------|
| start_time | Yes       | String | Monitoring start time: The value is in UTC format, for example, 2021-05-11T11:45:42Z. |
| end_time   | Yes       | String | Monitoring end time: The value is in UTC format, for example, 2021-05-11T11:45:42Z.   |

| Parameter                             | Mandatory                             | Type                            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |             |                  |                   |          |          |           |                   |          |          |              |                   |                  |                  |            |                   |                      |                      |                     |                   |                       |                       |                      |                   |                         |                         |                |                   |                          |                          |                 |                   |                                    |                                    |                      |                   |                                    |                                    |                      |                   |                                       |                                       |                       |                   |                                       |                                       |                       |                   |                        |                        |                               |                   |                  |                  |                  |                   |                    |                    |                         |                   |                            |                            |                                 |                   |
|---------------------------------------|---------------------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------------|------------------|-------------------|----------|----------|-----------|-------------------|----------|----------|--------------|-------------------|------------------|------------------|------------|-------------------|----------------------|----------------------|---------------------|-------------------|-----------------------|-----------------------|----------------------|-------------------|-------------------------|-------------------------|----------------|-------------------|--------------------------|--------------------------|-----------------|-------------------|------------------------------------|------------------------------------|----------------------|-------------------|------------------------------------|------------------------------------|----------------------|-------------------|---------------------------------------|---------------------------------------|-----------------------|-------------------|---------------------------------------|---------------------------------------|-----------------------|-------------------|------------------------|------------------------|-------------------------------|-------------------|------------------|------------------|------------------|-------------------|--------------------|--------------------|-------------------------|-------------------|----------------------------|----------------------------|---------------------------------|-------------------|
| metric_name                           | No                                    | String                          | <p>Monitoring metrics, for example, <b>cpu_util</b>. For details, see the following table. If <b>metric_name</b> is left blank, batch query will be performed.</p> <table border="1"> <thead> <tr> <th>Metric</th> <th>Metric Name</th> <th>Monitored Object</th> <th>Monitoring Period</th> </tr> </thead> <tbody> <tr> <td>cpu_util</td> <td>cpu_util</td> <td>CPU usage</td> <td>Workspace   5 min</td> </tr> <tr> <td>mem_util</td> <td>mem_util</td> <td>Memory usage</td> <td>Workspace   5 min</td> </tr> <tr> <td>disk_util_inband</td> <td>disk_util_inband</td> <td>Disk usage</td> <td>Workspace   5 min</td> </tr> <tr> <td>disk_read_bytes_rate</td> <td>disk_read_bytes_rate</td> <td>Disk read bandwidth</td> <td>Workspace   5 min</td> </tr> <tr> <td>disk_write_bytes_rate</td> <td>disk_write_bytes_rate</td> <td>Disk write bandwidth</td> <td>Workspace   5 min</td> </tr> <tr> <td>disk_read_requests_rate</td> <td>disk_read_requests_rate</td> <td>Disk read IOPS</td> <td>Workspace   5 min</td> </tr> <tr> <td>disk_write_requests_rate</td> <td>disk_write_requests_rate</td> <td>Disk write IOPS</td> <td>Workspace   5 min</td> </tr> <tr> <td>network_incoming_bytes_rate_inband</td> <td>network_incoming_bytes_rate_inband</td> <td>Inband incoming rate</td> <td>Workspace   5 min</td> </tr> <tr> <td>network_outgoing_bytes_rate_inband</td> <td>network_outgoing_bytes_rate_inband</td> <td>Inband outgoing rate</td> <td>Workspace   5 min</td> </tr> <tr> <td>network_incoming_bytes_aggregate_rate</td> <td>network_incoming_bytes_aggregate_rate</td> <td>Outband incoming rate</td> <td>Workspace   5 min</td> </tr> <tr> <td>network_outgoing_bytes_aggregate_rate</td> <td>network_outgoing_bytes_aggregate_rate</td> <td>Outband outgoing rate</td> <td>Workspace   5 min</td> </tr> <tr> <td>network_vm_connections</td> <td>network_vm_connections</td> <td>Number of network connections</td> <td>Workspace   5 min</td> </tr> <tr> <td>cpu_credit_usage</td> <td>cpu_credit_usage</td> <td>CPU credit usage</td> <td>Workspace   5 min</td> </tr> <tr> <td>cpu_credit_balance</td> <td>cpu_credit_balance</td> <td>Accumulated CPU credits</td> <td>Workspace   5 min</td> </tr> <tr> <td>cpu_surplus_credit_balance</td> <td>cpu_surplus_credit_balance</td> <td>Accumulated CPU surplus credits</td> <td>Workspace   5 min</td> </tr> </tbody> </table> | Metric | Metric Name | Monitored Object | Monitoring Period | cpu_util | cpu_util | CPU usage | Workspace   5 min | mem_util | mem_util | Memory usage | Workspace   5 min | disk_util_inband | disk_util_inband | Disk usage | Workspace   5 min | disk_read_bytes_rate | disk_read_bytes_rate | Disk read bandwidth | Workspace   5 min | disk_write_bytes_rate | disk_write_bytes_rate | Disk write bandwidth | Workspace   5 min | disk_read_requests_rate | disk_read_requests_rate | Disk read IOPS | Workspace   5 min | disk_write_requests_rate | disk_write_requests_rate | Disk write IOPS | Workspace   5 min | network_incoming_bytes_rate_inband | network_incoming_bytes_rate_inband | Inband incoming rate | Workspace   5 min | network_outgoing_bytes_rate_inband | network_outgoing_bytes_rate_inband | Inband outgoing rate | Workspace   5 min | network_incoming_bytes_aggregate_rate | network_incoming_bytes_aggregate_rate | Outband incoming rate | Workspace   5 min | network_outgoing_bytes_aggregate_rate | network_outgoing_bytes_aggregate_rate | Outband outgoing rate | Workspace   5 min | network_vm_connections | network_vm_connections | Number of network connections | Workspace   5 min | cpu_credit_usage | cpu_credit_usage | CPU credit usage | Workspace   5 min | cpu_credit_balance | cpu_credit_balance | Accumulated CPU credits | Workspace   5 min | cpu_surplus_credit_balance | cpu_surplus_credit_balance | Accumulated CPU surplus credits | Workspace   5 min |
| Metric                                | Metric Name                           | Monitored Object                | Monitoring Period                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |             |                  |                   |          |          |           |                   |          |          |              |                   |                  |                  |            |                   |                      |                      |                     |                   |                       |                       |                      |                   |                         |                         |                |                   |                          |                          |                 |                   |                                    |                                    |                      |                   |                                    |                                    |                      |                   |                                       |                                       |                       |                   |                                       |                                       |                       |                   |                        |                        |                               |                   |                  |                  |                  |                   |                    |                    |                         |                   |                            |                            |                                 |                   |
| cpu_util                              | cpu_util                              | CPU usage                       | Workspace   5 min                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |             |                  |                   |          |          |           |                   |          |          |              |                   |                  |                  |            |                   |                      |                      |                     |                   |                       |                       |                      |                   |                         |                         |                |                   |                          |                          |                 |                   |                                    |                                    |                      |                   |                                    |                                    |                      |                   |                                       |                                       |                       |                   |                                       |                                       |                       |                   |                        |                        |                               |                   |                  |                  |                  |                   |                    |                    |                         |                   |                            |                            |                                 |                   |
| mem_util                              | mem_util                              | Memory usage                    | Workspace   5 min                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |             |                  |                   |          |          |           |                   |          |          |              |                   |                  |                  |            |                   |                      |                      |                     |                   |                       |                       |                      |                   |                         |                         |                |                   |                          |                          |                 |                   |                                    |                                    |                      |                   |                                    |                                    |                      |                   |                                       |                                       |                       |                   |                                       |                                       |                       |                   |                        |                        |                               |                   |                  |                  |                  |                   |                    |                    |                         |                   |                            |                            |                                 |                   |
| disk_util_inband                      | disk_util_inband                      | Disk usage                      | Workspace   5 min                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |             |                  |                   |          |          |           |                   |          |          |              |                   |                  |                  |            |                   |                      |                      |                     |                   |                       |                       |                      |                   |                         |                         |                |                   |                          |                          |                 |                   |                                    |                                    |                      |                   |                                    |                                    |                      |                   |                                       |                                       |                       |                   |                                       |                                       |                       |                   |                        |                        |                               |                   |                  |                  |                  |                   |                    |                    |                         |                   |                            |                            |                                 |                   |
| disk_read_bytes_rate                  | disk_read_bytes_rate                  | Disk read bandwidth             | Workspace   5 min                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |             |                  |                   |          |          |           |                   |          |          |              |                   |                  |                  |            |                   |                      |                      |                     |                   |                       |                       |                      |                   |                         |                         |                |                   |                          |                          |                 |                   |                                    |                                    |                      |                   |                                    |                                    |                      |                   |                                       |                                       |                       |                   |                                       |                                       |                       |                   |                        |                        |                               |                   |                  |                  |                  |                   |                    |                    |                         |                   |                            |                            |                                 |                   |
| disk_write_bytes_rate                 | disk_write_bytes_rate                 | Disk write bandwidth            | Workspace   5 min                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |             |                  |                   |          |          |           |                   |          |          |              |                   |                  |                  |            |                   |                      |                      |                     |                   |                       |                       |                      |                   |                         |                         |                |                   |                          |                          |                 |                   |                                    |                                    |                      |                   |                                    |                                    |                      |                   |                                       |                                       |                       |                   |                                       |                                       |                       |                   |                        |                        |                               |                   |                  |                  |                  |                   |                    |                    |                         |                   |                            |                            |                                 |                   |
| disk_read_requests_rate               | disk_read_requests_rate               | Disk read IOPS                  | Workspace   5 min                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |             |                  |                   |          |          |           |                   |          |          |              |                   |                  |                  |            |                   |                      |                      |                     |                   |                       |                       |                      |                   |                         |                         |                |                   |                          |                          |                 |                   |                                    |                                    |                      |                   |                                    |                                    |                      |                   |                                       |                                       |                       |                   |                                       |                                       |                       |                   |                        |                        |                               |                   |                  |                  |                  |                   |                    |                    |                         |                   |                            |                            |                                 |                   |
| disk_write_requests_rate              | disk_write_requests_rate              | Disk write IOPS                 | Workspace   5 min                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |             |                  |                   |          |          |           |                   |          |          |              |                   |                  |                  |            |                   |                      |                      |                     |                   |                       |                       |                      |                   |                         |                         |                |                   |                          |                          |                 |                   |                                    |                                    |                      |                   |                                    |                                    |                      |                   |                                       |                                       |                       |                   |                                       |                                       |                       |                   |                        |                        |                               |                   |                  |                  |                  |                   |                    |                    |                         |                   |                            |                            |                                 |                   |
| network_incoming_bytes_rate_inband    | network_incoming_bytes_rate_inband    | Inband incoming rate            | Workspace   5 min                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |             |                  |                   |          |          |           |                   |          |          |              |                   |                  |                  |            |                   |                      |                      |                     |                   |                       |                       |                      |                   |                         |                         |                |                   |                          |                          |                 |                   |                                    |                                    |                      |                   |                                    |                                    |                      |                   |                                       |                                       |                       |                   |                                       |                                       |                       |                   |                        |                        |                               |                   |                  |                  |                  |                   |                    |                    |                         |                   |                            |                            |                                 |                   |
| network_outgoing_bytes_rate_inband    | network_outgoing_bytes_rate_inband    | Inband outgoing rate            | Workspace   5 min                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |             |                  |                   |          |          |           |                   |          |          |              |                   |                  |                  |            |                   |                      |                      |                     |                   |                       |                       |                      |                   |                         |                         |                |                   |                          |                          |                 |                   |                                    |                                    |                      |                   |                                    |                                    |                      |                   |                                       |                                       |                       |                   |                                       |                                       |                       |                   |                        |                        |                               |                   |                  |                  |                  |                   |                    |                    |                         |                   |                            |                            |                                 |                   |
| network_incoming_bytes_aggregate_rate | network_incoming_bytes_aggregate_rate | Outband incoming rate           | Workspace   5 min                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |             |                  |                   |          |          |           |                   |          |          |              |                   |                  |                  |            |                   |                      |                      |                     |                   |                       |                       |                      |                   |                         |                         |                |                   |                          |                          |                 |                   |                                    |                                    |                      |                   |                                    |                                    |                      |                   |                                       |                                       |                       |                   |                                       |                                       |                       |                   |                        |                        |                               |                   |                  |                  |                  |                   |                    |                    |                         |                   |                            |                            |                                 |                   |
| network_outgoing_bytes_aggregate_rate | network_outgoing_bytes_aggregate_rate | Outband outgoing rate           | Workspace   5 min                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |             |                  |                   |          |          |           |                   |          |          |              |                   |                  |                  |            |                   |                      |                      |                     |                   |                       |                       |                      |                   |                         |                         |                |                   |                          |                          |                 |                   |                                    |                                    |                      |                   |                                    |                                    |                      |                   |                                       |                                       |                       |                   |                                       |                                       |                       |                   |                        |                        |                               |                   |                  |                  |                  |                   |                    |                    |                         |                   |                            |                            |                                 |                   |
| network_vm_connections                | network_vm_connections                | Number of network connections   | Workspace   5 min                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |             |                  |                   |          |          |           |                   |          |          |              |                   |                  |                  |            |                   |                      |                      |                     |                   |                       |                       |                      |                   |                         |                         |                |                   |                          |                          |                 |                   |                                    |                                    |                      |                   |                                    |                                    |                      |                   |                                       |                                       |                       |                   |                                       |                                       |                       |                   |                        |                        |                               |                   |                  |                  |                  |                   |                    |                    |                         |                   |                            |                            |                                 |                   |
| cpu_credit_usage                      | cpu_credit_usage                      | CPU credit usage                | Workspace   5 min                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |             |                  |                   |          |          |           |                   |          |          |              |                   |                  |                  |            |                   |                      |                      |                     |                   |                       |                       |                      |                   |                         |                         |                |                   |                          |                          |                 |                   |                                    |                                    |                      |                   |                                    |                                    |                      |                   |                                       |                                       |                       |                   |                                       |                                       |                       |                   |                        |                        |                               |                   |                  |                  |                  |                   |                    |                    |                         |                   |                            |                            |                                 |                   |
| cpu_credit_balance                    | cpu_credit_balance                    | Accumulated CPU credits         | Workspace   5 min                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |             |                  |                   |          |          |           |                   |          |          |              |                   |                  |                  |            |                   |                      |                      |                     |                   |                       |                       |                      |                   |                         |                         |                |                   |                          |                          |                 |                   |                                    |                                    |                      |                   |                                    |                                    |                      |                   |                                       |                                       |                       |                   |                                       |                                       |                       |                   |                        |                        |                               |                   |                  |                  |                  |                   |                    |                    |                         |                   |                            |                            |                                 |                   |
| cpu_surplus_credit_balance            | cpu_surplus_credit_balance            | Accumulated CPU surplus credits | Workspace   5 min                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |             |                  |                   |          |          |           |                   |          |          |              |                   |                  |                  |            |                   |                      |                      |                     |                   |                       |                       |                      |                   |                         |                         |                |                   |                          |                          |                 |                   |                                    |                                    |                      |                   |                                    |                                    |                      |                   |                                       |                                       |                       |                   |                                       |                                       |                       |                   |                        |                        |                               |                   |                  |                  |                  |                   |                    |                    |                         |                   |                            |                            |                                 |                   |

| Parameter | Mandatory | Type | Description                                                                                                                                |
|-----------|-----------|------|--------------------------------------------------------------------------------------------------------------------------------------------|
|           |           |      | cpu_surplus_credit_charged   CPU surplus credits charged   Workspace   5 min    user_online_info   User online information   Workspace   - |

## Request Parameters

**Table 4-439** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                 |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API that is used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | No        | String | MIME type of the request body.                                                                                                                                              |

## Response Parameters

**Status code: 200**

**Table 4-440** Response body parameters

| Parameter        | Type                                          | Description                                                                                                                                                       |
|------------------|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| user_online_info | Array of <b>MonitorUserOnlineInfo</b> objects | Online information.                                                                                                                                               |
| online_status    | Integer                                       | Desktop login status. If the online information is empty, the login status can be <b>0</b> (not logged in to), <b>1</b> (logging in), or <b>2</b> (logged in to). |
| cpu_info         | Array of <b>Datapoints</b> objects            | CPU usage.                                                                                                                                                        |
| memory_info      | Array of <b>Datapoints</b> objects            | Memory usage.                                                                                                                                                     |

| Parameter                             | Type                               | Description                    |
|---------------------------------------|------------------------------------|--------------------------------|
| disk_util_inband                      | Array of <b>Datapoints</b> objects | Disk usage.                    |
| disk_read_bytes_rate                  | Array of <b>Datapoints</b> objects | Disk read bandwidth.           |
| disk_write_bytes_rate                 | Array of <b>Datapoints</b> objects | Disk write bandwidth.          |
| disk_read_requests_rate               | Array of <b>Datapoints</b> objects | Disk read IOPS.                |
| disk_write_requests_rate              | Array of <b>Datapoints</b> objects | Disk write IOPS.               |
| network_incoming_bytes_rate_inband    | Array of <b>Datapoints</b> objects | Inband incoming rate.          |
| network_outgoing_bytes_rate_inband    | Array of <b>Datapoints</b> objects | Inband outgoing rate.          |
| network_incoming_bytes_aggregate_rate | Array of <b>Datapoints</b> objects | Outband incoming rate.         |
| network_outgoing_bytes_aggregate_rate | Array of <b>Datapoints</b> objects | Outband outgoing rate.         |
| network_vm_connections                | Array of <b>Datapoints</b> objects | Number of network connections. |

**Table 4-441** MonitorUserOnlineInfo

| Parameter    | Type   | Description                                 |
|--------------|--------|---------------------------------------------|
| error_code   | String | Error code, which is returned upon failure. |
| error_msg    | String | Error description.                          |
| error_detail | String | Error details.                              |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |
| connection_setup_time         | String | Connection setup time.                                                                                                          |
| connection_end_time           | String | Connection end time.                                                                                                            |

Table 4-442 Datapoints

| Parameter | Type   | Description    |
|-----------|--------|----------------|
| average   | Double | Average value. |
| timestamp | Long   | Timestamp.     |

**Status code: default**

Table 4-443 Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Example Requests**

- `/v2/e3662787cb914315b85fd83aa53b93b1/desktop-monitor/a130ab3a-72bf-4b71-baa9-af4987c8e338?start_time=2021-10-11T06%3A56%3A56Z&end_time=2021-10-11T07%3A56%3A56Z`
- `/v2/e3662787cb914315b85fd83aa53b93b1/desktop-monitor/a130ab3a-72bf-4b71-baa9-af4987c8e338?start_time=2021-10-11T06%3A56%3A56Z&end_time=2021-10-11T07%3A56%3A56Z&metric_name=cpu_util`

**Example Responses****Status code: 200**

Response to the request for exporting desktop monitoring data.

```
{
 "cpu_info" : [{
 "average" : 0.4832775919732441,
 "timestamp" : 1618810632000
 }, {
 "average" : 0.4832775919732441,
 "timestamp" : 1618810931000
 }, {
 "average" : 0.5018382352941176,
 "timestamp" : 1618811203000
 }, {
 "average" : 0.4830508474576271,
 "timestamp" : 1618812396000
 }]
}
```

## Status Codes

| Status Code | Description                                                    |
|-------------|----------------------------------------------------------------|
| 200         | Response to the request for exporting desktop monitoring data. |
| default     | Default error response.                                        |

## Error Codes

See [Error Codes](#).

## 4.3.14 Remotely Logging In to the Console

### Function

Obtains the address for remotely logging in to the console.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

GET /v2/{project\_id}/desktops/{desktop\_id}/remote-consoles

**Table 4-444** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |
| desktop_id | Yes       | String | Desktop ID. |

## Request Parameters

**Table 4-445** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                 |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API that is used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | No        | String | MIME type of the request body.                                                                                                                                              |

## Response Parameters

**Status code: 200**

**Table 4-446** Response body parameters

| Parameter | Type   | Description                                      |
|-----------|--------|--------------------------------------------------|
| type      | String | Login type.                                      |
| url       | String | Obtains the URL for remote login to the console. |
| protocol  | String | Login protocol.                                  |

**Status code: default**

**Table 4-447** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |



## Example Requests

```
/v2/0bec5db98280d2d02fd6c00c2de791ce/desktops/2b31e-d520xxxx-xxebdb6-e57xxxxx/remote-consoles
```

## Example Responses

**Status code: 200**

Response body of the request for querying the address for remotely logging in to the console.

```
{
 "type" : "novnc",
 "url" : "https://console.xxx.huawei.com/vnc/xxx/vnc_auto.html?token=803xxxx-704b-4xxx-
bbb8-82907cxxx77&lang=EN"
}
```

## Status Codes

| Status Code | Description                                                                                   |
|-------------|-----------------------------------------------------------------------------------------------|
| 200         | Response body of the request for querying the address for remotely logging in to the console. |
| default     | Default error response.                                                                       |

## Error Codes

See [Error Codes](#).

## 4.3.15 Updating a Desktop SID

### Function

If the desktop SID is different from the SID of the Windows AD, update the desktop SID to make both SIDs the same. This API is used when the desktop is not in the domain.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

```
PUT /v2/{project_id}/desktops/sids
```

**Table 4-448** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

## Request Parameters

**Table 4-449** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                 |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API that is used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |

**Table 4-450** Request body parameters

| Parameter   | Mandatory | Type             | Description |
|-------------|-----------|------------------|-------------|
| desktop_ids | Yes       | Array of strings | VM list.    |

## Response Parameters

**Status code: 200**

Desktop SID updated.

**Status code: 202**

**Table 4-451** Response body parameters

| Parameter | Type   | Description |
|-----------|--------|-------------|
| job_id    | String | Task ID.    |

**Status code: 204**

Desktop SID not changed.

**Status code: 400**

**Table 4-452** Response body parameters

| Parameter  | Type   | Description                                 |
|------------|--------|---------------------------------------------|
| error_code | String | Error code, which is returned upon failure. |
| error_msg  | String | Error description.                          |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 412****Table 4-453** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: default****Table 4-454** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Example Requests**

```
/v2/{project_id}/desktops/sids
{
```

```
"desktop_ids" : ["48f3531f-6cde-49c7-8756-7f697a41241a", "234f-6cde-4fcxx7-8756-723acca1241ac"]
}
```

## Example Responses

**Status code: 202**

A task for updating SIDs in batches has been created.

```
{
 "job_id" : "string"
}
```

## Status Codes

| Status Code | Description                                           |
|-------------|-------------------------------------------------------|
| 200         | Desktop SID updated.                                  |
| 202         | A task for updating SIDs in batches has been created. |
| 204         | Desktop SID not changed.                              |
| 400         | Desktop ID not found.                                 |
| 412         | Desktop SID cannot be updated.                        |
| default     | Default error response.                               |

## Error Codes

See [Error Codes](#).

## 4.3.16 Rejoining a Desktop to the AD Domain

### Function

Rejoins a Windows desktop to the AD domain. This API is used when the desktop is not in the domain.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

POST /v2/{project\_id}/desktops/{desktop\_id}/rejoin-domain

**Table 4-455** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |
| desktop_id | Yes       | String | Desktop ID. |

## Request Parameters

**Table 4-456** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                 |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API that is used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |

## Response Parameters

**Status code: 202**

**Table 4-457** Response body parameters

| Parameter | Type   | Description |
|-----------|--------|-------------|
| job_id    | String | Task ID.    |

**Status code: 404**

**Table 4-458** Response body parameters

| Parameter    | Type   | Description                                 |
|--------------|--------|---------------------------------------------|
| error_code   | String | Error code, which is returned upon failure. |
| error_msg    | String | Error description.                          |
| error_detail | String | Error details.                              |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 409****Table 4-459** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 412****Table 4-460** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: default**

**Table 4-461** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

## Example Requests

None

## Example Responses

**Status code: 202**

A task for rejoining the domain has been created.

```
{
 "job_id" : "string"
}
```

## Status Codes

| Status Code | Description                                       |
|-------------|---------------------------------------------------|
| 202         | A task for rejoining the domain has been created. |
| 404         | Desktop not found.                                |
| 409         | Operation conflict.                               |
| 412         | The desktop cannot rejoin the domain.             |
| default     | Default error response.                           |

## Error Codes

See [Error Codes](#).

## 4.3.17 Converting a Desktop to an Image

### Function

Converts a desktop to an image.

## Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

## URI

POST /v2/{project\_id}/desktops/desktop-to-image

**Table 4-462** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

## Request Parameters

**Table 4-463** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                 |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API that is used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | No        | String | MIME type of the request body.                                                                                                                                              |

**Table 4-464** Request body parameters

| Parameter         | Mandatory | Type                                         | Description                                         |
|-------------------|-----------|----------------------------------------------|-----------------------------------------------------|
| image_name        | Yes       | String                                       | Image name.                                         |
| image_description | No        | String                                       | Image description.                                  |
| desktop_id        | Yes       | String                                       | Instance ID of the desktop used to create an image. |
| execute_sysprep   | No        | Boolean                                      | Whether to perform system encapsulation.            |
| image_tags        | No        | Array of <a href="#">TagKeyValue</a> objects | Image tags.                                         |



| Parameter             | Mandatory | Type   | Description                                                                                                                                                                                                                                    |
|-----------------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| enterprise_project_id | No        | String | The enterprise project to which the image belongs. If the value is <b>0</b> or left blank, the image belongs to the default enterprise project. If the value is a UUID, the image belongs to the enterprise project corresponding to the UUID. |
| max_ram               | No        | String | Maximum memory size (MB) allowed by the image.                                                                                                                                                                                                 |
| min_ram               | No        | String | Minimum memory size (MB) allowed by the image. The default value is <b>0</b> , indicating that the memory size is not restricted.                                                                                                              |

**Table 4-465** TagKeyValue

| Parameter | Mandatory | Type   | Description |
|-----------|-----------|--------|-------------|
| key       | No        | String | Tag key.    |
| value     | No        | String | Tag value.  |

## Response Parameters

**Status code: 200**

**Table 4-466** Response body parameters

| Parameter | Type   | Description                                 |
|-----------|--------|---------------------------------------------|
| job_id    | String | ID of the desktop-to-image conversion task. |

**Status code: 400**

**Table 4-467** Response body parameters

| Parameter  | Type   | Description                                 |
|------------|--------|---------------------------------------------|
| error_code | String | Error code, which is returned upon failure. |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-468** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-469** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404**

**Table 4-470** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 409****Table 4-471** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-472** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

## Example Requests

```
{
 "image_name": "string",
 "image_description": "string",
 "desktop_id": "string",
 "execute_sysprep": "true",
 "image_tags": [{
 "key": "string",
 "value": "string"
 }],
 "enterprise_project_id": "string",
 "max_ram": "string",
 "min_ram": "string"
}
```

## Example Responses

**Status code: 200**

Response to the request for converting a desktop to an image.

```
{
 "job_id": "string"
}
```

## Status Codes

| Status Code | Description                                                                      |
|-------------|----------------------------------------------------------------------------------|
| 200         | Response to the request for converting a desktop to an image.                    |
| 400         | The request cannot be understood by the server due to malformed syntax.          |
| 401         | Authentication failed.                                                           |
| 403         | No operation permissions.                                                        |
| 404         | No resources found.                                                              |
| 409         | Operation conflict.                                                              |
| 500         | An internal service error occurred. For details, see the error code description. |

## Error Codes

See [Error Codes](#).

### 4.3.18 Unbinding Users in Batches

#### Function

Unbinds desktops from users in batches.

## Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

## URI

POST /v2/{project\_id}/desktops/batch-detach

**Table 4-473** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

## Request Parameters

**Table 4-474** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                 |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API that is used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | No        | String | MIME type of the request body.                                                                                                                                              |

**Table 4-475** Request body parameters

| Parameter | Mandatory | Type                                                        | Description               |
|-----------|-----------|-------------------------------------------------------------|---------------------------|
| desktops  | No        | Array of <a href="#">DetachInstancesDesktopInfo</a> objects | List of unbound desktops. |

**Table 4-476** DetachInstancesDesktopInfo

| Parameter  | Mandatory | Type   | Description                 |
|------------|-----------|--------|-----------------------------|
| desktop_id | No        | String | ID of the assigned desktop. |

| Parameter           | Mandatory | Type                                            | Description                                                                                                                                                                                                                                       |
|---------------------|-----------|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| is_detach_all_users | No        | Boolean                                         | Whether to disassociate all users. The value <b>true</b> will invalidate <b>detach_user_infos</b> and all users will be disassociated. If the value is <b>false</b> , <b>detach_user_infos</b> will be used to specify the users to disassociate. |
| detach_user_infos   | No        | Array of <b>AttachInstancesUserInfo</b> objects | List of users to whom desktops are to be unassigned.                                                                                                                                                                                              |

**Table 4-477** AttachInstancesUserInfo

| Parameter | Mandatory | Type   | Description                                                                                                                                                                        |
|-----------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| user_id   | No        | String | If <b>type</b> is set to <b>USER</b> , enter the user ID. If <b>type</b> is set to <b>GROUP</b> , enter the user group ID. The backend service checks whether the group ID exists. |

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| user_name | No        | String | <p>Name of the object assigned with a desktop. If <b>type</b> is set to <b>USER</b>, enter the username. If <b>type</b> is set to <b>GROUP</b>, enter the user group name.</p> <ul style="list-style-type: none"><li>• If <b>type</b> is set to <b>USER</b>, the value is the username of the desktop user. After the desktop is assigned, the user can log in to the desktop. Only letters, digits, hyphens (-), and underscores (_) are allowed. When the domain type is <b>LITE_AD</b>, the value contains 1 to 20 characters starting with a letter. When the domain type is <b>LOCAL_AD</b>, the value contains 1 to 64 characters starting with a letter or digit. A Windows desktop username can contain a maximum of 20 characters, and a Linux desktop username can contain a maximum of 64 characters. The backend service checks whether the username exists. The username cannot be the same as the desktop name.</li><li>• If <b>type</b> is set to <b>GROUP</b>, the value can contain only letters, digits, hyphens (-), and underscores (_).</li></ul> |

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| user_group | No        | String | Specifies the user group to which the desktop user belongs. <ul style="list-style-type: none"> <li>• sudo: Linux administrator group.</li> <li>• default: default Linux user group.</li> <li>• administrators: Windows administrator group. Administrators have full access to the desktop and can make any required changes except for forbidden operations.</li> <li>• users: standard Windows user group. Standard users can use most software programs and change system settings that do not affect other users.</li> </ul> |
| type       | No        | String | Object type. Options: <ul style="list-style-type: none"> <li>• <b>USER</b>: user</li> <li>• <b>GROUP</b>: user group</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                  |

## Response Parameters

Status code: 200

**Table 4-478** Response body parameters

| Parameter             | Type                                    | Description                          |
|-----------------------|-----------------------------------------|--------------------------------------|
| failed_operation_list | Array of <b>VmOperateResult</b> objects | Desktops on which operations failed. |
| job_id                | String                                  | Task ID.                             |

**Table 4-479** VmOperateResult

| Parameter    | Type   | Description   |
|--------------|--------|---------------|
| desktop_id   | String | Desktop ID.   |
| desktop_name | String | Desktop name. |



| Parameter  | Type   | Description                     |
|------------|--------|---------------------------------|
| error_code | String | Error code.                     |
| error_msg  | String | Cause of the operation failure. |

**Status code: 400****Table 4-480** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-481** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403**

**Table 4-482** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-483** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 409****Table 4-484** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-485** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Example Requests**

```
{
 "desktops" : [{
 "desktop_id" : "string",
 "is_detach_all_users" : "false",
 "detach_user_infos" : [{
 "user_id" : "string",
 "user_name" : "string",
 "user_group" : "string",
 "type" : "USER"
 }]
 }]
}
```

**Example Responses****Status code: 200**

Normal.

```
{
 "failed_operation_list" : [{
 "desktop_id" : "string",
 "desktop_name" : "string",
 "error_code" : "string",
 "error_msg" : "string"
 }],
 "job_id" : "string"
}
```

**Status Codes**

| Status Code | Description                                                             |
|-------------|-------------------------------------------------------------------------|
| 200         | Normal.                                                                 |
| 400         | The request cannot be understood by the server due to malformed syntax. |

| Status Code | Description                                                                      |
|-------------|----------------------------------------------------------------------------------|
| 401         | Authentication failed.                                                           |
| 403         | No operation permissions.                                                        |
| 404         | No resources found.                                                              |
| 409         | Operation conflict.                                                              |
| 500         | An internal service error occurred. For details, see the error code description. |

## Error Codes

See [Error Codes](#).

### 4.3.19 Unbinding a User

#### Function

Unbinds a desktop from a user.

#### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

#### URI

POST /v2/{project\_id}/desktops/detach

**Table 4-486** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

## Request Parameters

**Table 4-487** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                 |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API that is used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | No        | String | MIME type of the request body.                                                                                                                                              |

**Table 4-488** Request body parameters

| Parameter            | Mandatory | Type             | Description                                       |
|----------------------|-----------|------------------|---------------------------------------------------|
| desktop_ids          | No        | Array of strings | Desktop ID list, which cannot be empty.           |
| shutoff_after_detach | No        | Boolean          | Whether to shut down the desktop after unbinding. |

## Response Parameters

**Status code: 200**

**Table 4-489** Response body parameters

| Parameter             | Type                                    | Description                          |
|-----------------------|-----------------------------------------|--------------------------------------|
| failed_operation_list | Array of <b>VmOperateResult</b> objects | Desktops on which operations failed. |
| job_id                | String                                  | Task ID.                             |

**Table 4-490** VmOperateResult

| Parameter    | Type   | Description   |
|--------------|--------|---------------|
| desktop_id   | String | Desktop ID.   |
| desktop_name | String | Desktop name. |

| Parameter  | Type   | Description                     |
|------------|--------|---------------------------------|
| error_code | String | Error code.                     |
| error_msg  | String | Cause of the operation failure. |

**Status code: 400****Table 4-491** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-492** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403**

**Table 4-493** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-494** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 409****Table 4-495** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-496** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Example Requests**

```
{
 "desktop_ids": ["string"]
}
```

**Example Responses****Status code: 200**

Normal.

```
{
 "failed_operation_list": [{
 "desktop_id": "string",
 "desktop_name": "string",
 "error_code": "string",
 "error_msg": "string"
 }],
 "job_id": "string"
}
```

**Status Codes**

| Status Code | Description                                                             |
|-------------|-------------------------------------------------------------------------|
| 200         | Normal.                                                                 |
| 400         | The request cannot be understood by the server due to malformed syntax. |
| 401         | Authentication failed.                                                  |
| 403         | No operation permissions.                                               |
| 404         | No resources found.                                                     |
| 409         | Operation conflict.                                                     |



| Status Code | Description                                                                      |
|-------------|----------------------------------------------------------------------------------|
| 500         | An internal service error occurred. For details, see the error code description. |

## Error Codes

See [Error Codes](#).

### 4.3.20 Assigning a Desktop to a User

#### Function

Assigns a desktop to a user.

#### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

#### URI

POST /v2/{project\_id}/desktops/attach

**Table 4-497** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

#### Request Parameters

**Table 4-498** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                 |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API that is used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | No        | String | MIME type of the request body.                                                                                                                                              |

**Table 4-499** Request body parameters

| Parameter              | Mandatory | Type                                                        | Description                                                                                                                                                   |
|------------------------|-----------|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| desktops               | No        | Array of <a href="#">AttachInstancesDesktopInfo</a> objects | Desktop information list.                                                                                                                                     |
| image_type             | No        | String                                                      | Image type. This parameter is mandatory only when the image needs to be changed.                                                                              |
| image_id               | No        | String                                                      | Template ID: This parameter is mandatory only when the image needs to be changed.                                                                             |
| desktop_name_policy_id | No        | String                                                      | Policy ID, which is used to specify a policy for generating desktop names. If a desktop name is specified, the specified desktop name is used preferentially. |

**Table 4-500** AttachInstancesDesktopInfo

| Parameter  | Mandatory | Type   | Description                       |
|------------|-----------|--------|-----------------------------------|
| desktop_id | No        | String | ID of the desktop to be assigned. |

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| user_name  | No        | String | User to whom a desktop belongs. After a desktop is assigned, the user can log in to the desktop. Only letters, digits, hyphens (-), and underscores (_) are allowed. When the domain type is <b>LITE_AD</b> , the value contains 1 to 20 characters starting with a letter. When the domain type is <b>LOCAL_AD</b> , the value contains 1 to 32 characters starting with a letter or digit. A Windows desktop username can contain a maximum of 20 characters, and a Linux desktop username can contain a maximum of 32 characters. The username cannot be the same as the name of the assigned desktop. This parameter is mandatory when <b>attach_user_infos</b> is left blank. <b>attach_user_infos</b> has a higher priority. |
| user_email | No        | String | Valid user email. After a desktop is assigned, a notification will be emailed to the user.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

| Parameter         | Mandatory | Type                                                     | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------|-----------|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| user_group        | No        | String                                                   | <p>User group to which the desktop user belongs. This parameter is mandatory when <b>attach_user_infos</b> is left blank. <b>attach_user_infos</b> has a higher priority.</p> <ul style="list-style-type: none"> <li>• <b>sudo</b>: Linux administrator group</li> <li>• <b>default</b>: default Linux user group</li> <li>• <b>administrators</b>: Windows administrator group. Administrators have full access to the desktop and can make any required changes except for forbidden operations.</li> <li>• <b>users</b>: standard Windows user group. Standard users can use most software programs and change system settings that do not affect other users.</li> </ul> |
| computer_name     | No        | String                                                   | <p>Desktop name, which must be unique. Enter 1 to 15 characters of only letters, digits, hyphens (-), and underscores (_). It must start with a letter and cannot end with a hyphen (-).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| is_clear_data     | No        | Boolean                                                  | <p>This parameter is valid only when unbinding and binding are performed on the same user. Whether to clear desktop data during binding. The options are <b>true</b> (yes) and <b>false</b> (no). The default value is <b>true</b>.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| attach_user_infos | No        | Array of <a href="#">AttachInstancesUserInfo</a> objects | <p>List of users to whom desktops are to be assigned. This parameter is valid only when a multi-user desktop is assigned to multiple users.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

**Table 4-501** AttachInstancesUserInfo

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| user_id   | No        | String | If <b>type</b> is set to <b>USER</b> , enter the user ID. If <b>type</b> is set to <b>GROUP</b> , enter the user group ID. The backend service checks whether the group ID exists.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| user_name | No        | String | <p>Name of the object assigned with a desktop. If <b>type</b> is set to <b>USER</b>, enter the username. If <b>type</b> is set to <b>GROUP</b>, enter the user group name.</p> <ul style="list-style-type: none"> <li>If <b>type</b> is set to <b>USER</b>, the value is the username of the desktop user. After the desktop is assigned, the user can log in to the desktop. Only letters, digits, hyphens (-), and underscores (_) are allowed. When the domain type is <b>LITE_AD</b>, the value contains 1 to 20 characters starting with a letter. When the domain type is <b>LOCAL_AD</b>, the value contains 1 to 64 characters starting with a letter or digit. A Windows desktop username can contain a maximum of 20 characters, and a Linux desktop username can contain a maximum of 64 characters. The backend service checks whether the username exists. The username cannot be the same as the desktop name.</li> <li>If <b>type</b> is set to <b>GROUP</b>, the value can contain only letters, digits, hyphens (-), and underscores (_).</li> </ul> |

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| user_group | No        | String | Specifies the user group to which the desktop user belongs. <ul style="list-style-type: none"> <li>• sudo: Linux administrator group.</li> <li>• default: default Linux user group.</li> <li>• administrators: Windows administrator group. Administrators have full access to the desktop and can make any required changes except for forbidden operations.</li> <li>• users: standard Windows user group. Standard users can use most software programs and change system settings that do not affect other users.</li> </ul> |
| type       | No        | String | Object type. Options: <ul style="list-style-type: none"> <li>• <b>USER</b>: user</li> <li>• <b>GROUP</b>: user group</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                  |

## Response Parameters

**Status code: 200**

**Table 4-502** Response body parameters

| Parameter | Type   | Description                              |
|-----------|--------|------------------------------------------|
| job_id    | String | ID of the cloud desktop assignment task. |

**Status code: 400**

**Table 4-503** Response body parameters

| Parameter  | Type   | Description                                 |
|------------|--------|---------------------------------------------|
| error_code | String | Error code, which is returned upon failure. |
| error_msg  | String | Error description.                          |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-504** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-505** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404**

**Table 4-506** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 409****Table 4-507** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-508** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |



## Example Requests

```
{
 "desktops": [{
 "desktop_id": "string",
 "user_name": "string",
 "user_group": "string",
 "computer_name": "string",
 "is_clear_data": "true"
 }],
 "image_type": "string",
 "image_id": "string",
 "desktop_name_policy_id": "string"
}
```

## Example Responses

**Status code: 200**

Normal.

```
{
 "job_id": "string"
}
```

## Status Codes

| Status Code | Description                                                                      |
|-------------|----------------------------------------------------------------------------------|
| 200         | Normal.                                                                          |
| 400         | The request cannot be understood by the server due to malformed syntax.          |
| 401         | Authentication failed.                                                           |
| 403         | No operation permissions.                                                        |
| 404         | No resources found.                                                              |
| 409         | Operation conflict.                                                              |
| 500         | An internal service error occurred. For details, see the error code description. |

## Error Codes

See [Error Codes](#).

### 4.3.21 Modifying User Permission Groups in Batches

#### Function

Modifies user permission groups in batches.

## Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

## URI

POST /v2/{project\_id}/desktops/change-user-privilege-group

**Table 4-509** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

## Request Parameters

**Table 4-510** Request body parameters

| Parameter | Mandatory | Type                                                                 | Description               |
|-----------|-----------|----------------------------------------------------------------------|---------------------------|
| desktops  | Yes       | Array of <a href="#">ChangeUserPrivilegeGroupDesktopInfo</a> objects | Desktop information list. |

| Parameter            | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| user_privilege_group | No        | String | <p>User permission group to which the desktop user belongs. Desktop users who are not contained in the parameter <b>desktops</b> will belong to this permission group.</p> <ul style="list-style-type: none"> <li>• <b>sudo</b>: Linux administrator group</li> <li>• <b>default</b>: default Linux user group</li> <li>• <b>administrators</b>: Windows administrator group. Administrators have full access to the desktop and can make any required changes except for forbidden operations.</li> <li>• <b>users</b>: standard Windows user group. Standard users can use most software programs and change system settings that do not affect other users.</li> </ul> |

**Table 4-511** ChangeUserPrivilegeGroupDesktopInfo

| Parameter         | Mandatory | Type                                                              | Description                                                                                                                                                                                                                                              |
|-------------------|-----------|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| desktop_id        | Yes       | String                                                            | ID of the desktop to be modified.                                                                                                                                                                                                                        |
| attach_user_infos | No        | Array of <a href="#">ChangeUserPrivilegeGroupUserInfo</a> objects | Information about the user whose permission group is to be modified. If this parameter is not transferred for a desktop, the parameter <b>user_privilege_group</b> of the upper-layer application structure is used as the permission group of the user. |

**Table 4-512** ChangeUserPrivilegeGroupUserInfo

| Parameter            | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| user_name            | Yes       | String | Name of the object assigned with a desktop. If <b>type</b> is set to <b>USER</b> , enter the username. If <b>type</b> is set to <b>GROUP</b> , enter the user group name.                                                                                                                                                                                                                                                                                                                                                                    |
| user_privilege_group | No        | String | User group to which the desktop user belongs. <ul style="list-style-type: none"> <li>• <b>sudo</b>: Linux administrator group</li> <li>• <b>default</b>: default Linux user group</li> <li>• <b>administrators</b>: Windows administrator group. Administrators have full access to the desktop and can make any required changes except for forbidden operations.</li> <li>• <b>users</b>: standard Windows user group. Standard users can use most software programs and change system settings that do not affect other users.</li> </ul> |
| type                 | Yes       | String | Object type. Options: <ul style="list-style-type: none"> <li>• <b>USER</b>: user</li> <li>• <b>GROUP</b>: user group</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                              |

## Response Parameters

**Status code: 200**

**Table 4-513** Response body parameters

| Parameter | Type   | Description |
|-----------|--------|-------------|
| job_id    | String | Task ID.    |

**Status code: 400**

**Table 4-514** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-515** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-516** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-517** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 409****Table 4-518** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-519** Response body parameters

| Parameter    | Type   | Description                                 |
|--------------|--------|---------------------------------------------|
| error_code   | String | Error code, which is returned upon failure. |
| error_msg    | String | Error description.                          |
| error_detail | String | Error details.                              |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

## Example Requests

```
{
 "desktops": [{
 "desktop_id": "string",
 "attach_user_infos": [{
 "user_name": "string",
 "user_privilege_group": "string",
 "type": "user"
 }]
 }]
}
```

## Example Responses

**Status code: 200**

Normal.

```
{
 "job_id": "string"
}
```

## Status Codes

| Status Code | Description                                                                      |
|-------------|----------------------------------------------------------------------------------|
| 200         | Normal.                                                                          |
| 400         | The request cannot be understood by the server due to malformed syntax.          |
| 401         | Authentication failed.                                                           |
| 403         | No operation permissions.                                                        |
| 404         | No resources found.                                                              |
| 409         | Operation conflict.                                                              |
| 500         | An internal service error occurred. For details, see the error code description. |

## Error Codes

See [Error Codes](#).

## 4.3.22 Query the Desktop Network

### Function

Queries desktop VPCs, subnets, private IP addresses, EIPs, and security groups.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

GET /v2/{project\_id}/desktops/{desktop\_id}/networks

**Table 4-520** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |
| desktop_id | Yes       | String | Desktop ID. |

### Request Parameters

**Table 4-521** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                 |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API that is used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | No        | String | MIME type of the request body.                                                                                                                                              |

### Response Parameters

**Status code: 200**

**Table 4-522** Response body parameters

| Parameter     | Type   | Description   |
|---------------|--------|---------------|
| computer_name | String | Desktop name. |



| Parameter     | Type                                | Description                  |
|---------------|-------------------------------------|------------------------------|
| computer_id   | String                              | Desktop ID.                  |
| network_infos | Array of <b>NetworkInfo</b> objects | Desktop network information. |

**Table 4-523** NetworkInfo

| Parameter       | Type                                      | Description                           |
|-----------------|-------------------------------------------|---------------------------------------|
| vpc_info        | <b>Vpc</b> object                         | VPC information.                      |
| subnet_info     | <b>DesktopSubnet</b> object               | Subnet information.                   |
| port_info       | <b>Port</b> object                        | Private IP address information.       |
| public_ip_info  | <b>PublicIp</b> object                    | EIP information.                      |
| security_groups | Array of <b>SecurityGroupInfo</b> objects | Security groups bound to the desktop. |

**Table 4-524** Vpc

| Parameter | Type   | Description                                   |
|-----------|--------|-----------------------------------------------|
| id        | String | ID of the VPC where the desktop is located.   |
| name      | String | Name of the VPC where the desktop is located. |
| cidr      | String | VPC CIDR block where the desktop is located.  |

**Table 4-525** DesktopSubnet

| Parameter | Type   | Description                                      |
|-----------|--------|--------------------------------------------------|
| id        | String | ID of the subnet where the desktop is located.   |
| name      | String | Name of the subnet where the desktop is located. |
| cidr      | String | Subnet CIDR block where the desktop is located.  |

**Table 4-526** Port

| Parameter  | Type   | Description                          |
|------------|--------|--------------------------------------|
| id         | String | Unique ID of the private IP address. |
| ip_address | String | Private IP address.                  |

**Table 4-527** PublicIp

| Parameter         | Type   | Description           |
|-------------------|--------|-----------------------|
| id                | String | Unique ID of the EIP. |
| public_ip_address | String | EIP.                  |

**Table 4-528** SecurityGroupInfo

| Parameter | Type   | Description          |
|-----------|--------|----------------------|
| id        | String | Security group ID.   |
| name      | String | Security group name. |

**Status code: 400****Table 4-529** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401**

**Table 4-530** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-531** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-532** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 409****Table 4-533** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-534** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Example Requests**

None

**Example Responses****Status code: 200**

Normal.

```
{
 "computer_name": "string",
 "computer_id": "string",
 "network_infos": [{
 "vpc_info": {
 "id": "string",
 "name": "string",
 "cidr": "string"
 }
 }
}
```

```

 },
 "subnet_info": {
 "id": "string",
 "name": "string",
 "cidr": "string"
 },
 "port_info": {
 "id": "string",
 "ip_address": "string"
 },
 "public_ip_info": {
 "id": "string",
 "public_ip_address": "string"
 },
 "security_groups": [{
 "id": "string",
 "name": "string"
 }]
 }]
}

```

## Status Codes

| Status Code | Description                                                                                           |
|-------------|-------------------------------------------------------------------------------------------------------|
| 200         | Normal.                                                                                               |
| 400         | The request cannot be understood by the server due to malformed syntax.                               |
| 401         | Authentication failed.                                                                                |
| 403         | No operation permissions.                                                                             |
| 404         | No resources found.                                                                                   |
| 409         | Operation conflict.                                                                                   |
| 500         | An internal service error occurred. For details about the error code, see the error code description. |

## Error Codes

See [Error Codes](#).

### 4.3.23 Switching a Desktop Network

#### Function

Switches the desktop VPC, subnet, IP address, or security group.

#### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

## URI

PUT /v2/{project\_id}/desktops/{desktop\_id}/networks

**Table 4-535** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |
| desktop_id | Yes       | String | Desktop ID. |

## Request Parameters

**Table 4-536** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                 |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API that is used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | No        | String | MIME type of the request body.                                                                                                                                              |

**Table 4-537** Request body parameters

| Parameter          | Mandatory | Type             | Description                       |
|--------------------|-----------|------------------|-----------------------------------|
| vpc_id             | Yes       | String           | ID of the VPC to be switched.     |
| subnet_id          | Yes       | String           | ID of the subnet to be switched.  |
| private_ip         | No        | String           | Specifies the private IP address. |
| security_group_ids | Yes       | Array of strings | Security group IDs.               |

## Response Parameters

**Status code: 200**

**Table 4-538** Response body parameters

| Parameter | Type   | Description |
|-----------|--------|-------------|
| job_id    | String | Task ID.    |

**Status code: 400****Table 4-539** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-540** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403**

**Table 4-541** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-542** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 409****Table 4-543** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |



**Status code: 500****Table 4-544** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Example Requests**

```
{
 "vpc_id" : "string",
 "subnet_id" : "string",
 "private_ip" : "string",
 "security_group_ids" : ["string", "string"]
}
```

**Example Responses****Status code: 200**

Normal.

```
{
 "job_id" : "string"
}
```

**Status Codes**

| Status Code | Description                                                                                           |
|-------------|-------------------------------------------------------------------------------------------------------|
| 200         | Normal.                                                                                               |
| 400         | The request cannot be understood by the server due to malformed syntax.                               |
| 401         | Authentication failed.                                                                                |
| 403         | No operation permissions.                                                                             |
| 404         | No resources found.                                                                                   |
| 409         | Operation conflict.                                                                                   |
| 500         | An internal service error occurred. For details about the error code, see the error code description. |

## Error Codes

See [Error Codes](#).

### 4.3.24 Querying Desktop Networks in Batches

#### Function

Queries desktop VPCs, subnets, private IP addresses, EIPs, and security groups.

#### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

#### URI

GET /v2/{project\_id}/desktops/networks

**Table 4-545** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

**Table 4-546** Query Parameters

| Parameter   | Mandatory | Type             | Description                                  |
|-------------|-----------|------------------|----------------------------------------------|
| desktop_ids | No        | Array of strings | Desktop IDs. The value ranges from 1 to 100. |

#### Request Parameters

**Table 4-547** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                 |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API that is used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |

| Parameter    | Mandatory | Type   | Description                    |
|--------------|-----------|--------|--------------------------------|
| Content-Type | No        | String | MIME type of the request body. |

## Response Parameters

Status code: 200

**Table 4-548** Response body parameters

| Parameter | Type                                         | Description                       |
|-----------|----------------------------------------------|-----------------------------------|
| networks  | Array of <b>DesktopNetworkResult</b> objects | Desktop network information list. |

**Table 4-549** DesktopNetworkResult

| Parameter     | Type                                | Description                  |
|---------------|-------------------------------------|------------------------------|
| computer_name | String                              | Desktop name.                |
| computer_id   | String                              | Desktop ID.                  |
| computer_ip   | String                              | Desktop IP address.          |
| network_infos | Array of <b>NetworkInfo</b> objects | Desktop network information. |

**Table 4-550** NetworkInfo

| Parameter       | Type                                      | Description                           |
|-----------------|-------------------------------------------|---------------------------------------|
| vpc_info        | <b>Vpc</b> object                         | VPC information.                      |
| subnet_info     | <b>DesktopSubnet</b> object               | Subnet information.                   |
| port_info       | <b>Port</b> object                        | Private IP address information.       |
| public_ip_info  | <b>PublicIp</b> object                    | EIP information.                      |
| security_groups | Array of <b>SecurityGroupInfo</b> objects | Security groups bound to the desktop. |

**Table 4-551** Vpc

| Parameter | Type   | Description                                   |
|-----------|--------|-----------------------------------------------|
| id        | String | ID of the VPC where the desktop is located.   |
| name      | String | Name of the VPC where the desktop is located. |
| cidr      | String | VPC CIDR block where the desktop is located.  |

**Table 4-552** DesktopSubnet

| Parameter | Type   | Description                                      |
|-----------|--------|--------------------------------------------------|
| id        | String | ID of the subnet where the desktop is located.   |
| name      | String | Name of the subnet where the desktop is located. |
| cidr      | String | Subnet CIDR block where the desktop is located.  |

**Table 4-553** Port

| Parameter  | Type   | Description                          |
|------------|--------|--------------------------------------|
| id         | String | Unique ID of the private IP address. |
| ip_address | String | Private IP address.                  |

**Table 4-554** PublicIp

| Parameter         | Type   | Description           |
|-------------------|--------|-----------------------|
| id                | String | Unique ID of the EIP. |
| public_ip_address | String | EIP.                  |

**Table 4-555** SecurityGroupInfo

| Parameter | Type   | Description          |
|-----------|--------|----------------------|
| id        | String | Security group ID.   |
| name      | String | Security group name. |

**Status code: 400****Table 4-556** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-557** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-558** Response body parameters

| Parameter    | Type   | Description                                 |
|--------------|--------|---------------------------------------------|
| error_code   | String | Error code, which is returned upon failure. |
| error_msg    | String | Error description.                          |
| error_detail | String | Error details.                              |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-559** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 409****Table 4-560** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500**

**Table 4-561** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

## Example Requests

None

## Example Responses

**Status code: 200**

Normal.

```
{
 "networks" : [{
 "computer_name" : "string",
 "computer_id" : "string",
 "computer_ip" : "string",
 "network_infos" : [{
 "vpc_info" : {
 "id" : "string",
 "name" : "string",
 "cidr" : "string"
 },
 "subnet_info" : {
 "id" : "string",
 "name" : "string",
 "cidr" : "string"
 },
 "port_info" : {
 "id" : "string",
 "ip_address" : "string"
 },
 "public_ip_info" : {
 "id" : "string",
 "public_ip_address" : "string"
 },
 "security_groups" : [{
 "id" : "string",
 "name" : "string"
 }]
 }]
 }]
}
```

## Status Codes

| Status Code | Description                                                                      |
|-------------|----------------------------------------------------------------------------------|
| 200         | Normal.                                                                          |
| 400         | The request cannot be understood by the server due to malformed syntax.          |
| 401         | Authentication failed.                                                           |
| 403         | No operation permissions.                                                        |
| 404         | No resources found.                                                              |
| 409         | Operation conflict.                                                              |
| 500         | An internal service error occurred. For details, see the error code description. |

## Error Codes

See [Error Codes](#).

### 4.3.25 Switching Desktop Networks in Batches

#### Function

Switches desktop VPCs, subnets, IP addresses, and security groups in batches.

#### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

#### URI

POST /v2/{project\_id}/desktops/networks/batch-change

**Table 4-562** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |



## Request Parameters

**Table 4-563** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                 |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API that is used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | No        | String | MIME type of the request body.                                                                                                                                              |

**Table 4-564** Request body parameters

| Parameter          | Mandatory | Type             | Description                                  |
|--------------------|-----------|------------------|----------------------------------------------|
| desktop_ids        | Yes       | Array of strings | Desktop IDs. The value ranges from 1 to 100. |
| vpc_id             | Yes       | String           | ID of the VPC to be switched.                |
| subnet_id          | Yes       | String           | ID of the subnet to be switched.             |
| security_group_ids | No        | Array of strings | Security group IDs.                          |

## Response Parameters

**Status code: 200**

**Table 4-565** Response body parameters

| Parameter | Type   | Description |
|-----------|--------|-------------|
| job_id    | String | Task ID.    |

**Status code: 400**

**Table 4-566** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-567** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-568** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-569** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 409****Table 4-570** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-571** Response body parameters

| Parameter    | Type   | Description                                 |
|--------------|--------|---------------------------------------------|
| error_code   | String | Error code, which is returned upon failure. |
| error_msg    | String | Error description.                          |
| error_detail | String | Error details.                              |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

## Example Requests

```
{
 "desktop_ids": ["string"],
 "vpc_id": "string",
 "subnet_id": "string",
 "security_group_ids": ["string"]
}
```

## Example Responses

**Status code: 200**

Normal.

```
{
 "job_id": "string"
}
```

## Status Codes

| Status Code | Description                                                                      |
|-------------|----------------------------------------------------------------------------------|
| 200         | Normal.                                                                          |
| 400         | The request cannot be understood by the server due to malformed syntax.          |
| 401         | Authentication failed.                                                           |
| 403         | No operation permissions.                                                        |
| 404         | No resources found.                                                              |
| 409         | Operation conflict.                                                              |
| 500         | An internal service error occurred. For details, see the error code description. |

## Error Codes

See [Error Codes](#).

## 4.3.26 Querying the Sysprep Version

### Function

Queries the Sysprep version.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

GET /v2/{project\_id}/desktops/{desktop\_id}/sysprep

**Table 4-572** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |
| desktop_id | Yes       | String | Desktop ID. |

### Request Parameters

**Table 4-573** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                 |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API that is used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | No        | String | MIME type of the request body.                                                                                                                                              |

### Response Parameters

**Status code: 200**

**Table 4-574** Response body parameters

| Parameter       | Type   | Description      |
|-----------------|--------|------------------|
| sysprep_version | String | Sysprep version. |

| Parameter            | Type    | Description                    |
|----------------------|---------|--------------------------------|
| support_create_image | Boolean | Whether images can be created. |

**Status code: 400****Table 4-575** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-576** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Example Requests**

None

**Example Responses****Status code: 200**

Response to the request for querying the Sysprep version.

```
{
 "sysprep_version" : "string",
 "support_create_image" : true
}
```

## Status Codes

| Status Code | Description                                                                      |
|-------------|----------------------------------------------------------------------------------|
| 200         | Response to the request for querying the Sysprep version.                        |
| 400         | The request cannot be understood by the server due to malformed syntax.          |
| 500         | An internal service error occurred. For details, see the error code description. |

## Error Codes

See [Error Codes](#).

## 4.3.27 Setting the Desktop Maintenance Mode in Batches

### Function

Sets the desktop administrator maintenance mode in batches.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

PUT /v2/{project\_id}/desktops/maintenance-mode

**Table 4-577** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

## Request Parameters

**Table 4-578** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                 |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API that is used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | No        | String | MIME type of the request body.                                                                                                                                              |

**Table 4-579** Request body parameters

| Parameter           | Mandatory | Type             | Description                                                                                                                                                        |
|---------------------|-----------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| desktop_ids         | Yes       | Array of strings | List of desktop IDs for which the maintenance mode needs to be set.                                                                                                |
| in_maintenance_mode | Yes       | Boolean          | Enables or disables the administrator maintenance mode. <ul style="list-style-type: none"> <li>• <b>false</b>: disabled</li> <li>• <b>true</b>: enabled</li> </ul> |

## Response Parameters

**Status code: 200**

Normal

**Status code: 400**

**Table 4-580** Response body parameters

| Parameter    | Type   | Description                                 |
|--------------|--------|---------------------------------------------|
| error_code   | String | Error code, which is returned upon failure. |
| error_msg    | String | Error description.                          |
| error_detail | String | Error details.                              |



| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-581** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-582** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404**

**Table 4-583** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-584** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Example Requests**

```
{
 "desktop_ids" : ["string"],
 "in_maintenance_mode" : true
}
```

**Example Responses**

None

**Status Codes**

| Status Code | Description |
|-------------|-------------|
| 200         | Normal      |

| Status Code | Description                                                                      |
|-------------|----------------------------------------------------------------------------------|
| 400         | The request cannot be understood by the server due to malformed syntax.          |
| 401         | Authentication failed.                                                           |
| 403         | No operation permissions.                                                        |
| 404         | No resources found.                                                              |
| 500         | An internal service error occurred. For details, see the error code description. |

## Error Codes

See [Error Codes](#).

### 4.3.28 Pre-Assigning Desktops to Users in Batches

#### Function

Pre-assigns desktops to users in batches.

#### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

#### URI

POST /v2/{project\_id}/desktops/pre-batch-attach

**Table 4-585** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

## Request Parameters

**Table 4-586** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                 |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API that is used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | No        | String | MIME type of the request body.                                                                                                                                              |

**Table 4-587** Request body parameters

| Parameter    | Mandatory | Type                                               | Description                               |
|--------------|-----------|----------------------------------------------------|-------------------------------------------|
| desktops     | No        | Array of <b>AttachInstancesDesktopInfo</b> objects | Desktop information list.                 |
| users        | No        | Array of <b>AttachInstancesUserInfo</b> objects    | User information list.                    |
| assign_model | No        | <b>AssignModelInfo</b> object                      | Policy for assigning desktops in batches. |

**Table 4-588** AttachInstancesDesktopInfo

| Parameter  | Mandatory | Type   | Description                       |
|------------|-----------|--------|-----------------------------------|
| desktop_id | No        | String | ID of the desktop to be assigned. |

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| user_name  | No        | String | User to whom a desktop belongs. After a desktop is assigned, the user can log in to the desktop. Only letters, digits, hyphens (-), and underscores (_) are allowed. When the domain type is <b>LITE_AD</b> , the value contains 1 to 20 characters starting with a letter. When the domain type is <b>LOCAL_AD</b> , the value contains 1 to 32 characters starting with a letter or digit. A Windows desktop username can contain a maximum of 20 characters, and a Linux desktop username can contain a maximum of 32 characters. The username cannot be the same as the name of the assigned desktop. This parameter is mandatory when <b>attach_user_infos</b> is left blank. <b>attach_user_infos</b> has a higher priority. |
| user_email | No        | String | Valid user email. After a desktop is assigned, a notification will be emailed to the user.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

| Parameter         | Mandatory | Type                                                     | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------|-----------|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| user_group        | No        | String                                                   | <p>User group to which the desktop user belongs. This parameter is mandatory when <b>attach_user_infos</b> is left blank. <b>attach_user_infos</b> has a higher priority.</p> <ul style="list-style-type: none"> <li>• <b>sudo</b>: Linux administrator group</li> <li>• <b>default</b>: default Linux user group</li> <li>• <b>administrators</b>: Windows administrator group. Administrators have full access to the desktop and can make any required changes except for forbidden operations.</li> <li>• <b>users</b>: standard Windows user group. Standard users can use most software programs and change system settings that do not affect other users.</li> </ul> |
| computer_name     | No        | String                                                   | <p>Desktop name, which must be unique. Enter 1 to 15 characters of only letters, digits, hyphens (-), and underscores (_). It must start with a letter and cannot end with a hyphen (-).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| is_clear_data     | No        | Boolean                                                  | <p>This parameter is valid only when unbinding and binding are performed on the same user. Whether to clear desktop data during binding. The options are <b>true</b> (yes) and <b>false</b> (no). The default value is <b>true</b>.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| attach_user_infos | No        | Array of <a href="#">AttachInstancesUserInfo</a> objects | <p>List of users to whom desktops are to be assigned. This parameter is valid only when a multi-user desktop is assigned to multiple users.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

**Table 4-589** AttachInstancesUserInfo

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| user_id   | No        | String | If <b>type</b> is set to <b>USER</b> , enter the user ID. If <b>type</b> is set to <b>GROUP</b> , enter the user group ID. The backend service checks whether the group ID exists.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| user_name | No        | String | <p>Name of the object assigned with a desktop. If <b>type</b> is set to <b>USER</b>, enter the username. If <b>type</b> is set to <b>GROUP</b>, enter the user group name.</p> <ul style="list-style-type: none"> <li>If <b>type</b> is set to <b>USER</b>, the value is the username of the desktop user. After the desktop is assigned, the user can log in to the desktop. Only letters, digits, hyphens (-), and underscores (_) are allowed. When the domain type is <b>LITE_AD</b>, the value contains 1 to 20 characters starting with a letter. When the domain type is <b>LOCAL_AD</b>, the value contains 1 to 64 characters starting with a letter or digit. A Windows desktop username can contain a maximum of 20 characters, and a Linux desktop username can contain a maximum of 64 characters. The backend service checks whether the username exists. The username cannot be the same as the desktop name.</li> <li>If <b>type</b> is set to <b>GROUP</b>, the value can contain only letters, digits, hyphens (-), and underscores (_).</li> </ul> |

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| user_group | No        | String | Specifies the user group to which the desktop user belongs. <ul style="list-style-type: none"> <li>• sudo: Linux administrator group.</li> <li>• default: default Linux user group.</li> <li>• administrators: Windows administrator group. Administrators have full access to the desktop and can make any required changes except for forbidden operations.</li> <li>• users: standard Windows user group. Standard users can use most software programs and change system settings that do not affect other users.</li> </ul> |
| type       | No        | String | Object type. Options: <ul style="list-style-type: none"> <li>• <b>USER</b>: user</li> <li>• <b>GROUP</b>: user group</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                  |

**Table 4-590** AssignModelInfo

| Parameter        | Mandatory | Type   | Description                                                                                                                                       |
|------------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| assign_dimension | No        | String | Dimension for assignment. Options: <ul style="list-style-type: none"> <li>• <b>USER</b>: by user</li> <li>• <b>DESKTOP</b>: by desktop</li> </ul> |



| Parameter                   | Mandatory | Type    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------|-----------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| priority_strategy           | No        | String  | <p>Policy indicating assignment priority. The policy name is in the format of <i>{Dimension}_{Sub-policy}</i>.</p> <ul style="list-style-type: none"> <li>• <b>USER_NO_DESKTOP</b>: by user - no desktop</li> <li>• <b>USER_FIXED_DESKTOP_NUM</b>: by user - fixed number of desktops</li> <li>• <b>DESKTOP_ASSIGN_USER_PRIORITY</b>: by desktop - user first</li> <li>• <b>DESKTOP_ASSIGN_FIXED_USER</b>: by desktop - fixed user</li> <li>• <b>DESKTOP_ASSIGN_USERS_OR_GROUPS</b>: by desktop - Each desktop is assigned to all selected users or user groups.</li> <li>• <b>FIXED_RELATION</b>: fixed assignment relationship in the parameter</li> </ul> |
| desktop_assignment_user_num | No        | Integer | <p>Number of users to whom each desktop is automatically assigned. This parameter is mandatory when the sub-policy is <b>DESKTOP_ASSIGN_FIXED_USER</b>.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| user_assignment_desktop_num | No        | Integer | <p>Number of desktops automatically assigned to each user.</p> <p><b>USER_FIXED_DESKTOP_NUM</b> is mandatory when the sub-policy is <b>USER_NO_DESKTOP</b>.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| desktop_name_policy_id      | No        | String  | <p>Policy ID, which is used to specify a policy for generating desktop names. If a desktop name is specified, the specified desktop name is used preferentially.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

## Response Parameters

Status code: 200

**Table 4-591** Response body parameters

| Parameter             | Type                                                         | Description                                                                        |
|-----------------------|--------------------------------------------------------------|------------------------------------------------------------------------------------|
| assign_dimension      | String                                                       | Dimension for assignment (by user or by desktop).                                  |
| desktop               | Array of <a href="#">DesktopDimensionAttachInfo</a> objects  | If <b>assign_dimension</b> is set to <b>DESKTOP</b> , the dimension is by desktop. |
| user                  | Array of <a href="#">UserDimensionAttachInfo</a> objects     | If <b>assign_dimension</b> is set to <b>USER</b> , the dimension is by user.       |
| desktops_attach_infos | Array of <a href="#">AttachInstances-DesktopInfo</a> objects | Desktop assignment relationship.                                                   |

**Table 4-592** DesktopDimensionAttachInfo

| Parameter    | Type    | Description                                                                                    |
|--------------|---------|------------------------------------------------------------------------------------------------|
| desktop_name | String  | Desktop name.                                                                                  |
| desktop_id   | String  | Desktop ID.                                                                                    |
| user_num     | Integer | Number of users to whom desktops are to be assigned.                                           |
| user_name    | String  | Usernames to which desktops are to be assigned. Use commas (,) to separate multiple usernames. |

**Table 4-593** UserDimensionAttachInfo

| Parameter    | Type    | Description                                                                  |
|--------------|---------|------------------------------------------------------------------------------|
| user_name    | String  | Username.                                                                    |
| user_id      | String  | Desktop ID.                                                                  |
| desktop_num  | Integer | Number of desktops to be assigned.                                           |
| desktop_name | String  | Names of desktops to be assigned. Use commas (,) to separate multiple names. |

**Table 4-594** AttachInstancesDesktopInfo

| Parameter  | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| desktop_id | String | ID of the desktop to be assigned.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| user_name  | String | User to whom a desktop belongs. After a desktop is assigned, the user can log in to the desktop. Only letters, digits, hyphens (-), and underscores (_) are allowed. When the domain type is <b>LITE_AD</b> , the value contains 1 to 20 characters starting with a letter. When the domain type is <b>LOCAL_AD</b> , the value contains 1 to 32 characters starting with a letter or digit. A Windows desktop username can contain a maximum of 20 characters, and a Linux desktop username can contain a maximum of 32 characters. The username cannot be the same as the name of the assigned desktop. This parameter is mandatory when <b>attach_user_infos</b> is left blank. <b>attach_user_infos</b> has a higher priority. |
| user_email | String | Valid user email. After a desktop is assigned, a notification will be emailed to the user.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| user_group | String | User group to which the desktop user belongs. This parameter is mandatory when <b>attach_user_infos</b> is left blank. <b>attach_user_infos</b> has a higher priority. <ul style="list-style-type: none"> <li>• <b>sudo</b>: Linux administrator group</li> <li>• <b>default</b>: default Linux user group</li> <li>• <b>administrators</b>: Windows administrator group. Administrators have full access to the desktop and can make any required changes except for forbidden operations.</li> <li>• <b>users</b>: standard Windows user group. Standard users can use most software programs and change system settings that do not affect other users.</li> </ul>                                                              |

| Parameter         | Type                                                     | Description                                                                                                                                                                                                                       |
|-------------------|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| computer_name     | String                                                   | Desktop name, which must be unique. Enter 1 to 15 characters of only letters, digits, hyphens (-), and underscores (_). It must start with a letter and cannot end with a hyphen (-).                                             |
| is_clear_data     | Boolean                                                  | This parameter is valid only when unbinding and binding are performed on the same user. Whether to clear desktop data during binding. The options are <b>true</b> (yes) and <b>false</b> (no). The default value is <b>true</b> . |
| attach_user_infos | Array of <a href="#">AttachInstancesUserInfo</a> objects | List of users to whom desktops are to be assigned. This parameter is valid only when a multi-user desktop is assigned to multiple users.                                                                                          |

**Table 4-595** AttachInstancesUserInfo

| Parameter | Type   | Description                                                                                                                                                                        |
|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| user_id   | String | If <b>type</b> is set to <b>USER</b> , enter the user ID. If <b>type</b> is set to <b>GROUP</b> , enter the user group ID. The backend service checks whether the group ID exists. |

| Parameter  | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| user_name  | String | <p>Name of the object assigned with a desktop. If <b>type</b> is set to <b>USER</b>, enter the username. If <b>type</b> is set to <b>GROUP</b>, enter the user group name.</p> <ul style="list-style-type: none"> <li>If <b>type</b> is set to <b>USER</b>, the value is the username of the desktop user. After the desktop is assigned, the user can log in to the desktop. Only letters, digits, hyphens (-), and underscores (_) are allowed. When the domain type is <b>LITE_AD</b>, the value contains 1 to 20 characters starting with a letter. When the domain type is <b>LOCAL_AD</b>, the value contains 1 to 64 characters starting with a letter or digit. A Windows desktop username can contain a maximum of 20 characters, and a Linux desktop username can contain a maximum of 64 characters. The backend service checks whether the username exists. The username cannot be the same as the desktop name.</li> <li>If <b>type</b> is set to <b>GROUP</b>, the value can contain only letters, digits, hyphens (-), and underscores (_).</li> </ul> |
| user_group | String | <p>Specifies the user group to which the desktop user belongs.</p> <ul style="list-style-type: none"> <li>sudo: Linux administrator group.</li> <li>default: default Linux user group.</li> <li>administrators: Windows administrator group. Administrators have full access to the desktop and can make any required changes except for forbidden operations.</li> <li>users: standard Windows user group. Standard users can use most software programs and change system settings that do not affect other users.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| type       | String | <p>Object type. Options:</p> <ul style="list-style-type: none"> <li><b>USER</b>: user</li> <li><b>GROUP</b>: user group</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

**Status code: 400****Table 4-596** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-597** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-598** Response body parameters

| Parameter    | Type   | Description                                 |
|--------------|--------|---------------------------------------------|
| error_code   | String | Error code, which is returned upon failure. |
| error_msg    | String | Error description.                          |
| error_detail | String | Error details.                              |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-599** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-600** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Example Requests**

```
{
 "desktops" : [{
 "desktop_id" : "b41a8cc1-4813-47a0-bf3a-7800fcd5b581"
 }, {
 "desktop_id" : "5f4ed564-14eb-44fd-8ff7-0483725a532b"
 }, {

```

```

"desktop_id" : "dfdddcf4-f943-43b4-987b-e5785022d6c5"
}],
"users" : [{
"user_id" : "3f6cc4c5d1ff4a79ab826b7964e9ff5d",
"user_name" : "user1"
}, {
"user_id" : "21bb9f13e6ff42fb96cd62489c446935",
"user_name" : "user2"
}],
"assign_model" : {
"assign_dimension" : "USER",
"priority_strategy" : "USER_NO_DESKTOP",
"desktop_assign_user_num" : 2
}
}

```

## Example Responses

### Status code: 200

Response to the request for pre-assigning desktops to users in batches.

```

{
"assign_dimension" : "USER",
"desktop" : [],
"user" : [{
"user_name" : "user1",
"user_id" : "21bb9f13e6ff42fb96cd62489c446935",
"desktop_num" : 1,
"desktop_name" : "MARKETNOUSER17"
}, {
"user_name" : "user2",
"user_id" : "3f6cc4c5d1ff4a79ab826b7964e9ff5d",
"desktop_num" : 1,
"desktop_name" : "MARKETNOUSER18"
}]
}

```

## Status Codes

| Status Code | Description                                                                      |
|-------------|----------------------------------------------------------------------------------|
| 200         | Response to the request for pre-assigning desktops to users in batches.          |
| 400         | The request cannot be understood by the server due to malformed syntax.          |
| 401         | Authentication failed.                                                           |
| 403         | No operation permissions.                                                        |
| 404         | No resources found.                                                              |
| 500         | An internal service error occurred. For details, see the error code description. |

## Error Codes

See [Error Codes](#).



## 4.3.29 Assigning Desktops to Users in Batches

### Function

Assigns desktops to users in batches.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

POST /v2/{project\_id}/desktops/batch-attach

**Table 4-601** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

### Request Parameters

**Table 4-602** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                 |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API that is used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | No        | String | MIME type of the request body.                                                                                                                                              |

**Table 4-603** Request body parameters

| Parameter | Mandatory | Type                                                        | Description               |
|-----------|-----------|-------------------------------------------------------------|---------------------------|
| desktops  | No        | Array of <a href="#">AttachInstancesDesktopInfo</a> objects | Desktop information list. |

| Parameter    | Mandatory | Type                                            | Description                               |
|--------------|-----------|-------------------------------------------------|-------------------------------------------|
| users        | No        | Array of <b>AttachInstancesUserInfo</b> objects | User information list.                    |
| assign_model | No        | <b>AssignModelInfo</b> object                   | Policy for assigning desktops in batches. |

**Table 4-604** AttachInstancesDesktopInfo

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| desktop_id | No        | String | ID of the desktop to be assigned.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| user_name  | No        | String | User to whom a desktop belongs. After a desktop is assigned, the user can log in to the desktop. Only letters, digits, hyphens (-), and underscores (_) are allowed. When the domain type is <b>LITE_AD</b> , the value contains 1 to 20 characters starting with a letter. When the domain type is <b>LOCAL_AD</b> , the value contains 1 to 32 characters starting with a letter or digit. A Windows desktop username can contain a maximum of 20 characters, and a Linux desktop username can contain a maximum of 32 characters. The username cannot be the same as the name of the assigned desktop. This parameter is mandatory when <b>attach_user_infos</b> is left blank. <b>attach_user_infos</b> has a higher priority. |
| user_email | No        | String | Valid user email. After a desktop is assigned, a notification will be emailed to the user.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

| Parameter         | Mandatory | Type                                                     | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------|-----------|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| user_group        | No        | String                                                   | <p>User group to which the desktop user belongs. This parameter is mandatory when <b>attach_user_infos</b> is left blank. <b>attach_user_infos</b> has a higher priority.</p> <ul style="list-style-type: none"> <li>• <b>sudo</b>: Linux administrator group</li> <li>• <b>default</b>: default Linux user group</li> <li>• <b>administrators</b>: Windows administrator group. Administrators have full access to the desktop and can make any required changes except for forbidden operations.</li> <li>• <b>users</b>: standard Windows user group. Standard users can use most software programs and change system settings that do not affect other users.</li> </ul> |
| computer_name     | No        | String                                                   | <p>Desktop name, which must be unique. Enter 1 to 15 characters of only letters, digits, hyphens (-), and underscores (_). It must start with a letter and cannot end with a hyphen (-).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| is_clear_data     | No        | Boolean                                                  | <p>This parameter is valid only when unbinding and binding are performed on the same user. Whether to clear desktop data during binding. The options are <b>true</b> (yes) and <b>false</b> (no). The default value is <b>true</b>.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| attach_user_infos | No        | Array of <a href="#">AttachInstancesUserInfo</a> objects | <p>List of users to whom desktops are to be assigned. This parameter is valid only when a multi-user desktop is assigned to multiple users.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

**Table 4-605** AttachInstancesUserInfo

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| user_id   | No        | String | If <b>type</b> is set to <b>USER</b> , enter the user ID. If <b>type</b> is set to <b>GROUP</b> , enter the user group ID. The backend service checks whether the group ID exists.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| user_name | No        | String | <p>Name of the object assigned with a desktop. If <b>type</b> is set to <b>USER</b>, enter the username. If <b>type</b> is set to <b>GROUP</b>, enter the user group name.</p> <ul style="list-style-type: none"> <li>If <b>type</b> is set to <b>USER</b>, the value is the username of the desktop user. After the desktop is assigned, the user can log in to the desktop. Only letters, digits, hyphens (-), and underscores (_) are allowed. When the domain type is <b>LITE_AD</b>, the value contains 1 to 20 characters starting with a letter. When the domain type is <b>LOCAL_AD</b>, the value contains 1 to 64 characters starting with a letter or digit. A Windows desktop username can contain a maximum of 20 characters, and a Linux desktop username can contain a maximum of 64 characters. The backend service checks whether the username exists. The username cannot be the same as the desktop name.</li> <li>If <b>type</b> is set to <b>GROUP</b>, the value can contain only letters, digits, hyphens (-), and underscores (_).</li> </ul> |

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| user_group | No        | String | Specifies the user group to which the desktop user belongs. <ul style="list-style-type: none"> <li>• sudo: Linux administrator group.</li> <li>• default: default Linux user group.</li> <li>• administrators: Windows administrator group. Administrators have full access to the desktop and can make any required changes except for forbidden operations.</li> <li>• users: standard Windows user group. Standard users can use most software programs and change system settings that do not affect other users.</li> </ul> |
| type       | No        | String | Object type. Options: <ul style="list-style-type: none"> <li>• <b>USER</b>: user</li> <li>• <b>GROUP</b>: user group</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                  |

**Table 4-606** AssignModelInfo

| Parameter        | Mandatory | Type   | Description                                                                                                                                       |
|------------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| assign_dimension | No        | String | Dimension for assignment. Options: <ul style="list-style-type: none"> <li>• <b>USER</b>: by user</li> <li>• <b>DESKTOP</b>: by desktop</li> </ul> |

| Parameter                   | Mandatory | Type    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------|-----------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| priority_strategy           | No        | String  | <p>Policy indicating assignment priority. The policy name is in the format of <i>{Dimension}_{Sub-policy}</i>.</p> <ul style="list-style-type: none"> <li>• <b>USER_NO_DESKTOP</b>: by user - no desktop</li> <li>• <b>USER_FIXED_DESKTOP_NUM</b>: by user - fixed number of desktops</li> <li>• <b>DESKTOP_ASSIGN_USER_PRIORITY</b>: by desktop - user first</li> <li>• <b>DESKTOP_ASSIGN_FIXED_USER</b>: by desktop - fixed user</li> <li>• <b>DESKTOP_ASSIGN_USERS_OR_GROUPS</b>: by desktop - Each desktop is assigned to all selected users or user groups.</li> <li>• <b>FIXED_RELATION</b>: fixed assignment relationship in the parameter</li> </ul> |
| desktop_assignment_user_num | No        | Integer | <p>Number of users to whom each desktop is automatically assigned. This parameter is mandatory when the sub-policy is <b>DESKTOP_ASSIGN_FIXED_USER</b>.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| user_assignment_desktop_num | No        | Integer | <p>Number of desktops automatically assigned to each user.</p> <p><b>USER_FIXED_DESKTOP_NUM</b> is mandatory when the sub-policy is <b>USER_NO_DESKTOP</b>.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| desktop_name_policy_id      | No        | String  | <p>Policy ID, which is used to specify a policy for generating desktop names. If a desktop name is specified, the specified desktop name is used preferentially.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

## Response Parameters

Status code: 200

**Table 4-607** Response body parameters

| Parameter | Type   | Description                              |
|-----------|--------|------------------------------------------|
| job_id    | String | ID of the cloud desktop assignment task. |

**Status code: 400****Table 4-608** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-609** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403**

**Table 4-610** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-611** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-612** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |



## Example Requests

```
{
 "desktops": [{
 "desktop_id": "b41a8cc1-4813-47a0-bf3a-7800fcd5b581"
 }, {
 "desktop_id": "5f4ed564-14eb-44fd-8ff7-0483725a532b"
 }, {
 "desktop_id": "dfdddcf4-f943-43b4-987b-e5785022d6c5"
 }],
 "users": [{
 "user_id": "3f6cc4c5d1ff4a79ab826b7964e9ff5d",
 "user_name": "user1"
 }, {
 "user_id": "21bb9f13e6ff42fb96cd62489c446935",
 "user_name": "user2"
 }],
 "assign_model": {
 "assign_dimension": "USER",
 "priority_strategy": "USER_NO_DESKTOP",
 "desktop_assign_user_num": 2
 }
}
```

## Example Responses

**Status code: 200**

Response to the request for assigning desktops to users in batches.

```
{
 "job_id": "3979904c-7beb-4f34-835f-2fa989a5550a"
}
```

## Status Codes

| Status Code | Description                                                                      |
|-------------|----------------------------------------------------------------------------------|
| 200         | Response to the request for assigning desktops to users in batches.              |
| 400         | The request cannot be understood by the server due to malformed syntax.          |
| 401         | Authentication failed.                                                           |
| 403         | No operation permissions.                                                        |
| 404         | No resources found.                                                              |
| 500         | An internal service error occurred. For details, see the error code description. |

## Error Codes

See [Error Codes](#).

## 4.3.30 Changing the Associated Username of a Desktop in the AD Scenario

### Function

Changes the associated username of a desktop in the AD scenario.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

PUT /v2/{project\_id}/desktops/change-username

**Table 4-613** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

### Request Parameters

**Table 4-614** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                 |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API that is used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |

**Table 4-615** Request body parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                |
|--------------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------|
| old_username | Yes       | String | If the desktop is associated with the original username, only the username is transferred, without the domain information. |

| Parameter    | Mandatory | Type    | Description                                                                                                         |
|--------------|-----------|---------|---------------------------------------------------------------------------------------------------------------------|
| new_username | Yes       | String  | If the desktop is associated with a new username, only the username is transferred, without the domain information. |
| is_reboot    | No        | Boolean | Whether to restart the VM after a new username is associated with the desktop. By default, the VM is not restarted. |

## Response Parameters

### Status code: 204

Response to the request for changing the username associated with a desktop.

### Status code: 400

**Table 4-616** Response body parameters

| Parameter                     | Type   | Description                                                                                                                      |
|-------------------------------|--------|----------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                      |
| error_msg                     | String | Error description.                                                                                                               |
| error_detail                  | String | Error details.                                                                                                                   |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorizati-on-message</b> of STS to decrypt the reason. |

### Status code: 401

**Table 4-617** Response body parameters

| Parameter    | Type   | Description                                 |
|--------------|--------|---------------------------------------------|
| error_code   | String | Error code, which is returned upon failure. |
| error_msg    | String | Error description.                          |
| error_detail | String | Error details.                              |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-618** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-619** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Example Requests**

```
{
 "old_username" : "user01",
 "new_username" : "user02",
 "is_reboot" : true
}
```

## Example Responses

None

## Status Codes

| Status Code | Description                                                                  |
|-------------|------------------------------------------------------------------------------|
| 204         | Response to the request for changing the username associated with a desktop. |
| 400         | The request cannot be understood by the server due to malformed syntax.      |
| 401         | Authentication failed.                                                       |
| 403         | No operation permissions.                                                    |
| 500         | Internal server error.                                                       |

## Error Codes

See [Error Codes](#).

### 4.3.31 Sending a Notification

#### Function

The administrator sends a notification to a desktop.

#### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

#### URI

POST /v2/{project\_id}/desktops/notifications

**Table 4-620** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

## Request Parameters

**Table 4-621** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                 |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API that is used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |

**Table 4-622** Request body parameters

| Parameter     | Mandatory | Type             | Description           |
|---------------|-----------|------------------|-----------------------|
| desktop_ids   | Yes       | Array of strings | Desktop list.         |
| notifications | Yes       | String           | Notification content. |

## Response Parameters

**Status code: 200**

**Table 4-623** Response body parameters

| Parameter | Type   | Description                                       |
|-----------|--------|---------------------------------------------------|
| job_id    | String | ID of the task for sending messages to a desktop. |

**Status code: 400**

**Table 4-624** Response body parameters

| Parameter    | Type   | Description                                 |
|--------------|--------|---------------------------------------------|
| error_code   | String | Error code, which is returned upon failure. |
| error_msg    | String | Error description.                          |
| error_detail | String | Error details.                              |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-625** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-626** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404**

**Table 4-627** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 409****Table 4-628** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-629** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |



## Example Requests

```
{
 "desktop_ids": ["713340659-3049531573-3422099183-1117"],
 "notifications": "Sending a message to a desktop"
}
```

## Example Responses

**Status code: 200**

Response to the request for sending a message to a desktop.

```
{
 "job_id": "string"
}
```

## Status Codes

| Status Code | Description                                                                      |
|-------------|----------------------------------------------------------------------------------|
| 200         | Response to the request for sending a message to a desktop.                      |
| 400         | The request cannot be understood by the server due to malformed syntax.          |
| 401         | Authentication failed.                                                           |
| 403         | No operation permissions.                                                        |
| 404         | No resources found.                                                              |
| 409         | Operation conflict.                                                              |
| 500         | An internal service error occurred. For details, see the error code description. |

## Error Codes

See [Error Codes](#).

## 4.3.32 Querying Agent Installation Details of a Desktop

### Function

Shows agent installation details of a desktop.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

GET /v2/{project\_id}/desktops/agents

**Table 4-630** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

**Table 4-631** Query Parameters

| Parameter             | Mandatory | Type    | Description                                                 |
|-----------------------|-----------|---------|-------------------------------------------------------------|
| enterprise_project_id | No        | String  | Enterprise project ID.                                      |
| desktop_id            | No        | String  | Desktop ID.                                                 |
| desktop_name          | No        | String  | Desktop name.                                               |
| status                | No        | String  | Desktop status.                                             |
| ip_address            | No        | String  | IP address.                                                 |
| is_installed          | No        | Boolean | Whether the plug-in has been installed.                     |
| desktop_pool_id       | No        | String  | Desktop pool ID.                                            |
| limit                 | No        | Integer | Number of records displayed on each page.                   |
| offset                | No        | Integer | Where the pagination query starts. The value starts from 0. |

## Request Parameters

**Table 4-632** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                 |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API that is used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | No        | String | MIME type of the request body.                                                                                                                                              |

## Response Parameters

Status code: 200

**Table 4-633** Response body parameters

| Parameter        | Type                                             | Description                        |
|------------------|--------------------------------------------------|------------------------------------|
| agents_condition | Array of <a href="#">AgentsCondition</a> objects | Desktop agent installation status. |
| total_count      | Integer                                          | Total number of records.           |

**Table 4-634** AgentsCondition

| Parameter             | Type                                       | Description                                                                                                                                                                                            |
|-----------------------|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| desktop_id            | String                                     | Desktop ID.                                                                                                                                                                                            |
| desktop_name          | String                                     | Desktop name.                                                                                                                                                                                          |
| desktop_pool_id       | String                                     | Desktop pool ID.                                                                                                                                                                                       |
| status                | String                                     | Desktop running status.                                                                                                                                                                                |
| task_status           | String                                     | Task status of the desktop.                                                                                                                                                                            |
| ip_address            | String                                     | IP address.                                                                                                                                                                                            |
| enterprise_project_id | String                                     | Enterprise project ID.                                                                                                                                                                                 |
| process               | Integer                                    | Desktop task progress. The value ranges from 0 to 100, or is <b>null</b> . <b>null</b> indicates that there is no task on the desktop. The value from 0 to 100 indicates the task progress percentage. |
| agent_info            | Array of <a href="#">AgentInfo</a> objects | Agent installation status of a single desktop.                                                                                                                                                         |

**Table 4-635** AgentInfo

| Parameter     | Type    | Description                     |
|---------------|---------|---------------------------------|
| agent_name    | String  | Plug-in name.                   |
| agent_version | String  | Plug-in version.                |
| is_installed  | Boolean | Whether to install the plug-in. |

**Status code: 400****Table 4-636** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-637** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-638** Response body parameters

| Parameter    | Type   | Description                                 |
|--------------|--------|---------------------------------------------|
| error_code   | String | Error code, which is returned upon failure. |
| error_msg    | String | Error description.                          |
| error_detail | String | Error details.                              |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500**

**Table 4-639** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

## Example Requests

```
/v2/9c53a566cb3443ab910cf0daebca90c4/desktops/agents
```

## Example Responses

**Status code: 200**

Response body to the request for querying the agent installation details of a desktop.

```
{
 "agents_condition": [{
 "desktop_id": "string",
 "desktop_name": "string",
 "desktop_pool_id": "string",
 "status": "string",
 "task_status": "string",
 "ip_address": "string",
 "enterprise_project_id": "string",
 "process": 0,
 "agent_info": [{
 "agent_name": "string",
 "agent_version": "string",
 "is_installed": true
 }]
 }],
 "total_count": 2147483647
}
```

## Status Codes

| Status Code | Description                                                                            |
|-------------|----------------------------------------------------------------------------------------|
| 200         | Response body to the request for querying the agent installation details of a desktop. |
| 400         | The request cannot be understood by the server due to malformed syntax.                |
| 401         | Authentication failed.                                                                 |
| 403         | No operation permissions.                                                              |
| 500         | Internal server error.                                                                 |

## Error Codes

See [Error Codes](#).

### 4.3.33 Installing an Agent

#### Function

Installs agents on desktops in batches.

#### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

#### URI

POST /v2/{project\_id}/desktops/agents

**Table 4-640** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

## Request Parameters

**Table 4-641** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                 |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API that is used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | No        | String | MIME type of the request body.                                                                                                                                              |

**Table 4-642** Request body parameters

| Parameter   | Mandatory | Type             | Description                                        |
|-------------|-----------|------------------|----------------------------------------------------|
| desktop_ids | Yes       | Array of strings | IDs of desktops on which operations are performed. |

## Response Parameters

**Status code: 200**

**Table 4-643** Response body parameters

| Parameter | Type   | Description |
|-----------|--------|-------------|
| job_id    | String | Task ID.    |

**Status code: 400**

**Table 4-644** Response body parameters

| Parameter    | Type   | Description                                 |
|--------------|--------|---------------------------------------------|
| error_code   | String | Error code, which is returned upon failure. |
| error_msg    | String | Error description.                          |
| error_detail | String | Error details.                              |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-645** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-646** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500**



**Table 4-647** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

## Example Requests

```
{
 "desktop_ids" : ["f77db5cd-c020-47d4-bbbe-9b979a38d18c", "f77db5cd-c020-47d4-
bbbe-9b979a38d18b"]
}
```

## Example Responses

**Status code: 200**

Response body to the request for installing agents on desktops in batches.

```
{
 "job_id" : "string"
}
```

## Status Codes

| Status Code | Description                                                                |
|-------------|----------------------------------------------------------------------------|
| 200         | Response body to the request for installing agents on desktops in batches. |
| 400         | The request cannot be understood by the server due to malformed syntax.    |
| 401         | Authentication failed.                                                     |
| 403         | No operation permissions.                                                  |
| 500         | Internal server error.                                                     |

## Error Codes

See [Error Codes](#).

## 4.3.34 Querying Remote Assistance Data by Desktop ID

### Function

Queries remote assistance data by desktop ID.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

GET /v2/{project\_id}/desktops/{desktop\_id}/remote-assistance

**Table 4-648** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |
| desktop_id | Yes       | String | Desktop ID. |

### Request Parameters

**Table 4-649** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                 |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API that is used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | No        | String | MIME type of the request body.                                                                                                                                              |

### Response Parameters

**Status code: 200**

**Table 4-650** Response body parameters

| Parameter      | Type   | Description             |
|----------------|--------|-------------------------|
| share_space_id | String | Collaborative space ID. |

| Parameter            | Type   | Description                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| invitation_code      | String | Collaborative space invitation code (eight characters consisting of uppercase letters and digits).                                                                                                                                                                                                                                                                                   |
| share_space_name     | String | Collaborative space name.                                                                                                                                                                                                                                                                                                                                                            |
| share_space_password | String | Collaborative space password.                                                                                                                                                                                                                                                                                                                                                        |
| private_share_link   | String | Shared Direct Connect link.                                                                                                                                                                                                                                                                                                                                                          |
| internet_share_link  | String | Shared Internet access link.                                                                                                                                                                                                                                                                                                                                                         |
| create_time          | String | Creation time (UTC time, yyyy-MM-dd'T'HH:mm:ss'Z').'                                                                                                                                                                                                                                                                                                                                 |
| status               | String | Collaborative space status. <ul style="list-style-type: none"> <li>● <b>OPEN</b>: The collaborative space has been created.</li> <li>● <b>CLOSE</b>: The collaborative space has been closed.</li> <li>● <b>WAIT_USER_CONFIRM</b>: waiting for the user to confirm remote assistance</li> <li>● <b>WAIT_USER_ACCESS</b>: waiting for the user to enable remote assistance</li> </ul> |
| failed_reason        | String | Failure cause.                                                                                                                                                                                                                                                                                                                                                                       |

**Status code: 400****Table 4-651** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-652** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-653** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-654** Response body parameters

| Parameter    | Type   | Description                                 |
|--------------|--------|---------------------------------------------|
| error_code   | String | Error code, which is returned upon failure. |
| error_msg    | String | Error description.                          |
| error_detail | String | Error details.                              |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500**

**Table 4-655** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

## Example Requests

```
/v2/0bec5db98280d2d02fd6c00c2de791ce/desktops/a130ab3a-72bf-4b71-baa9-af4987c8e338/remote-assistance
```

## Example Responses

**Status code: 200**

Normal.

```
{
 "share_space_id" : "abvccch3jk12h3kj123hkj12",
 "invitation_code" : "D1F32AA6",
 "share_space_name" : "testShareSpaceName",
 "private_share_link" : "https://127.0.0.1:9445/#/share-space?username=xxx&workspace_id=xxx&code=D1F32GF6",
 "internet_share_link" : "https://127.0.0.1:9445/#/share-space?username=xxx&workspace_id=xxx&code=D1F32GF6",
 "create_time" : "2022-03-28T00:00:00Z",
 "status" : "OPEN",
 "failed_reason" : null
}
```

## Status Codes

| Status Code | Description                                                                      |
|-------------|----------------------------------------------------------------------------------|
| 200         | Normal.                                                                          |
| 400         | The request cannot be understood by the server due to malformed syntax.          |
| 401         | Authentication failed.                                                           |
| 403         | No operation permissions.                                                        |
| 404         | No resources found.                                                              |
| 500         | An internal service error occurred. For details, see the error code description. |

## Error Codes

See [Error Codes](#).

### 4.3.35 Creating Remote Assistance

#### Function

Creates remote assistance.

#### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

#### URI

POST /v2/{project\_id}/desktops/{desktop\_id}/remote-assistance

**Table 4-656** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |
| desktop_id | Yes       | String | Desktop ID. |

## Request Parameters

**Table 4-657** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                 |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API that is used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | No        | String | MIME type of the request body.                                                                                                                                              |

## Response Parameters

**Status code: 200**

**Table 4-658** Response body parameters

| Parameter      | Type   | Description                                                                                                                                                                                                                                                                                                                                                                          |
|----------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| share_space_id | String | Collaborative space ID.                                                                                                                                                                                                                                                                                                                                                              |
| status         | String | Collaborative space status. <ul style="list-style-type: none"> <li>• <b>OPEN</b>: The collaborative space has been created.</li> <li>• <b>CLOSE</b>: The collaborative space has been closed.</li> <li>• <b>WAIT_USER_CONFIRM</b>: waiting for the user to confirm remote assistance</li> <li>• <b>WAIT_USER_ACCESS</b>: waiting for the user to enable remote assistance</li> </ul> |
| desktop_id     | String | Desktop ID.                                                                                                                                                                                                                                                                                                                                                                          |
| initiator_type | String | Initiator type. <ul style="list-style-type: none"> <li>• <b>ADMIN_INITIATE</b>: initiated by the administrator</li> <li>• <b>ENDUSER_INITIATE</b>: initiated by end users</li> </ul>                                                                                                                                                                                                 |

**Status code: 400**

**Table 4-659** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-660** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-661** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |



**Status code: 404****Table 4-662** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-663** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Example Requests**

```
/v2/0bec5db98280d2d02fd6c00c2de791ce/desktops/a130ab3a-72bf-4b71-baa9-af4987c8e338/remote-assistance
```

**Example Responses****Status code: 200**

Normal.

```
{
 "share_space_id": "abvccch3jk12h3kj123hkj12",
 "status": "OPEN",
 "desktop_id": "a130ab3a-72bf-4b71-baa9-af4987c8e338",
 "initiator_type": "ADMIN_INITIATE"
}
```

## Status Codes

| Status Code | Description                                                                      |
|-------------|----------------------------------------------------------------------------------|
| 200         | Normal.                                                                          |
| 400         | The request cannot be understood by the server due to malformed syntax.          |
| 401         | Authentication failed.                                                           |
| 403         | No operation permissions.                                                        |
| 404         | No resources found.                                                              |
| 500         | An internal service error occurred. For details, see the error code description. |

## Error Codes

See [Error Codes](#).

### 4.3.36 Canceling Remote Assistance

#### Function

Cancel remote assistance.

#### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

#### URI

DELETE /v2/{project\_id}/desktops/{desktop\_id}/remote-assistance

**Table 4-664** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |
| desktop_id | Yes       | String | Desktop ID. |

## Request Parameters

**Table 4-665** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                 |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API that is used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | No        | String | MIME type of the request body.                                                                                                                                              |

## Response Parameters

**Status code: 204**

Normal, no response body.

**Status code: 400**

**Table 4-666** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401**

**Table 4-667** Response body parameters

| Parameter  | Type   | Description                                 |
|------------|--------|---------------------------------------------|
| error_code | String | Error code, which is returned upon failure. |
| error_msg  | String | Error description.                          |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-668** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-669** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500**

**Table 4-670** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

## Example Requests

```
/v2/0bec5db98280d2d02fd6c00c2de791ce/desktops/a130ab3a-72bf-4b71-baa9-af4987c8e338/remote-assistance
```

## Example Responses

None

## Status Codes

| Status Code | Description                                                                      |
|-------------|----------------------------------------------------------------------------------|
| 204         | Normal, no response body.                                                        |
| 400         | The request cannot be understood by the server due to malformed syntax.          |
| 401         | Authentication failed.                                                           |
| 403         | No operation permissions.                                                        |
| 404         | No resources found.                                                              |
| 500         | An internal service error occurred. For details, see the error code description. |

## Error Codes

See [Error Codes](#).

### 4.3.37 Querying Desktop Connection Statuses

#### Function

Queries desktop connection statuses.

## Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

## URI

GET /v2/{project\_id}/connect-desktops

**Table 4-671** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

**Table 4-672** Query Parameters

| Parameter        | Mandatory | Type             | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------|-----------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| user_names       | No        | Array of strings | Desktop user. Up to 100 users can be filtered in batches.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| connect_statuses | No        | String           | Desktop connection status. <ul style="list-style-type: none"> <li>• <b>UNREGISTER</b>: unregistered (a desktop is automatically registered after being started). After a desktop is shut down, it is in the unregistered status.</li> <li>• <b>REGISTERED</b>: The desktop has been registered and can be logged in to.</li> <li>• <b>CONNECTED</b>: The desktop has been logged in to and is being used.</li> <li>• <b>DISCONNECTED</b>: The desktop is disconnected from the client because the client window is closed or the networking between the client and desktop is interrupted.</li> </ul> |
| offset           | No        | Integer          | Sequence number of the first data record to be returned. This parameter is used for pagination query. The value ranges from 0 (default) to 2,000.                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

| Parameter | Mandatory | Type    | Description                                                                                                                                                                 |
|-----------|-----------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| limit     | No        | Integer | Number of data records to be returned in the query result. This parameter is used for pagination query. The value ranges from 0 to 2,000. The default value is <b>100</b> . |

## Request Parameters

**Table 4-673** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                 |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API that is used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | No        | String | MIME type of the request body.                                                                                                                                              |

## Response Parameters

**Status code: 200**

**Table 4-674** Response body parameters

| Parameter   | Type                                                 | Description                   |
|-------------|------------------------------------------------------|-------------------------------|
| desktops    | Array of <a href="#">ConnectDesktopsInfo</a> objects | Desktop connection data list. |
| total_count | Integer                                              | Total number of desktops.     |

**Table 4-675** ConnectDesktopsInfo

| Parameter    | Type   | Description   |
|--------------|--------|---------------|
| desktop_id   | String | Desktop ID.   |
| desktop_name | String | Desktop name. |

| Parameter      | Type                                             | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| connect_status | String                                           | <p>Desktop connection status.</p> <ul style="list-style-type: none"> <li>• <b>UNREGISTER</b>: unregistered (a desktop is automatically registered after being started). After a desktop is shut down, it is in the unregistered status.</li> <li>• <b>REGISTERED</b>: The desktop has been registered and can be logged in to.</li> <li>• <b>CONNECTED</b>: The desktop has been logged in to and is being used.</li> <li>• <b>DISCONNECTED</b>: The desktop is disconnected from the client because the client window is closed or the networking between the client and desktop is interrupted.</li> </ul> |
| attach_users   | Array of <a href="#">AttachUsersInfo</a> objects | List of users or user groups to which desktops have been assigned.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

**Table 4-676** AttachUsersInfo

| Parameter | Type   | Description                                                                                                                                                                        |
|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id        | String | If <b>type</b> is set to <b>USER</b> , enter the user ID. If <b>type</b> is set to <b>GROUP</b> , enter the user group ID. The backend service checks whether the group ID exists. |



| Parameter  | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| name       | String | <p>Name of the object assigned with a desktop. If <b>type</b> is set to <b>USER</b>, enter the username. If <b>type</b> is set to <b>GROUP</b>, enter the user group name.</p> <ul style="list-style-type: none"> <li>If <b>type</b> is set to <b>USER</b>, the value is the username of the desktop user. After the desktop is assigned, the user can log in to the desktop. Only letters, digits, hyphens (-), and underscores (_) are allowed. When the domain type is <b>LITE_AD</b>, the value contains 1 to 20 characters starting with a letter. When the domain type is <b>LOCAL_AD</b>, the value contains 1 to 64 characters starting with a letter or digit. A Windows desktop username can contain a maximum of 20 characters, and a Linux desktop username can contain a maximum of 64 characters. The backend service checks whether the username exists. The username cannot be the same as the desktop name.</li> <li>If <b>type</b> is set to <b>GROUP</b>, the value can contain only letters, digits, hyphens (-), and underscores (_).</li> </ul> |
| user_group | String | <p>User group to which the desktop user belongs.</p> <ul style="list-style-type: none"> <li><b>sudo</b>: Linux administrator group</li> <li><b>default</b>: default Linux user group</li> <li><b>administrators</b>: Windows administrator group. Administrators have full access to the desktop and can make any required changes except for forbidden operations.</li> <li><b>users</b>: standard Windows user group. Standard users can use most software programs and change system settings that do not affect other users.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| type       | String | <p>Object type. Options:</p> <ul style="list-style-type: none"> <li><b>USER</b>: user</li> <li><b>GROUP</b>: user group</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

**Status code: 400****Table 4-677** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-678** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-679** Response body parameters

| Parameter    | Type   | Description                                 |
|--------------|--------|---------------------------------------------|
| error_code   | String | Error code, which is returned upon failure. |
| error_msg    | String | Error description.                          |
| error_detail | String | Error details.                              |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-680** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-681** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Example Requests**

```
/v2/0bec5db98280d2d02fd6c00c2de791ce/connect-desktops
```

**Example Responses****Status code: 200**

Response to the request for querying cloud desktop details.

```
{
 "desktops": [{
 "desktop_id": "string",
 "desktop_name": "string",
 "connect_status": "string",
 "attach_users": [{
 "id": "string",
 "name": "string",
 "user_group": "string",
 "type": "USER"
 }]
 }],
 "total_count": 0
}
```

## Status Codes

| Status Code | Description                                                                      |
|-------------|----------------------------------------------------------------------------------|
| 200         | Response to the request for querying cloud desktop details.                      |
| 400         | The request cannot be understood by the server due to malformed syntax.          |
| 401         | Authentication failed.                                                           |
| 403         | No operation permissions.                                                        |
| 404         | No resources found.                                                              |
| 500         | An internal service error occurred. For details, see the error code description. |

## Error Codes

See [Error Codes](#).

### 4.3.38 Querying Available IP Addresses of a Subnet by Subnet ID

#### Function

Queries available IP addresses of a subnet by subnet ID.

#### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

#### URI

GET /v2/{project\_id}/subnets/{subnet\_id}/available-ip

**Table 4-682** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |
| subnet_id  | Yes       | String | Subnet ID.  |

## Request Parameters

**Table 4-683** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                         |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |

## Response Parameters

**Status code: 200**

**Table 4-684** Response body parameters

| Parameter    | Type    | Description                       |
|--------------|---------|-----------------------------------|
| available_ip | Integer | Number of available IP addresses. |

**Status code: 401**

**Table 4-685** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-686** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-687** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-688** Response body parameters

| Parameter    | Type   | Description                                 |
|--------------|--------|---------------------------------------------|
| error_code   | String | Error code, which is returned upon failure. |
| error_msg    | String | Error description.                          |
| error_detail | String | Error details.                              |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

## Example Requests

None

## Example Responses

**Status code: 200**

Response to available IP addresses.

```
{
 "available_ip" : 1
}
```

## Status Codes

| Status Code | Description                                                                      |
|-------------|----------------------------------------------------------------------------------|
| 200         | Response to available IP addresses.                                              |
| 401         | Authentication failed.                                                           |
| 403         | No operation permissions.                                                        |
| 404         | No resources found.                                                              |
| 500         | An internal service error occurred. For details, see the error code description. |

## Error Codes

See [Error Codes](#).

# 4.4 Desktop Pools

## 4.4.1 Creating a Desktop Pool

### Function

Creates and assigns a desktop pool to a user or user group. When the user logs in, the user is bound to one of the desktops.

To use this function, you need to authorize the cloud service by calling the API for enabling the agency function.

## Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

## URI

POST /v2/{project\_id}/desktop-pools

**Table 4-689** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

## Request Parameters

**Table 4-690** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                         |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |

**Table 4-691** Request body parameters

| Parameter | Mandatory | Type   | Description                                                                                                                                                         |
|-----------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| name      | Yes       | String | Desktop pool name, which must be unique. The desktop name can contain 1 to 255 characters, including uppercase letters, lowercase letters, digits, and hyphens (-). |
| type      | Yes       | String | Desktop pool type. The options are <b>DYNAMIC</b> (dynamic pool) and <b>STATIC</b> (static pool).                                                                   |



| Parameter          | Mandatory | Type                                      | Description                                                                                                                                                            |
|--------------------|-----------|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| size               | Yes       | Integer                                   | Desktop pool size: number of desktops to be created in the current desktop pool.                                                                                       |
| description        | No        | String                                    | Desktop pool description.                                                                                                                                              |
| availability_zone  | No        | String                                    | AZ. Create a desktop in the specified AZ. If this parameter is not specified, the default AZ is used.                                                                  |
| product_id         | Yes       | String                                    | Package ID.                                                                                                                                                            |
| flavor_id          | No        | String                                    | Product specification ID. This parameter is mandatory when the AZ is an edge AZ.                                                                                       |
| image_type         | Yes       | String                                    | Specifies the image type. The default value is <b>private</b> . <ul style="list-style-type: none"> <li>private: Private image.</li> <li>gold: Public image.</li> </ul> |
| image_id           | Yes       | String                                    | Image ID. This parameter is used together with <b>product_id</b> for creating desktops using custom images.                                                            |
| root_volume        | Yes       | <b>VolumInfo</b> object                   | System disk.                                                                                                                                                           |
| data_volumes       | No        | Array of <b>VolumInfo</b> objects         | Data disks.                                                                                                                                                            |
| vpc_id             | No        | String                                    | Specifies the VPC ID when the desktop is created.                                                                                                                      |
| subnet_ids         | Yes       | Array of strings                          | ID of the subnet used for creating a desktop.                                                                                                                          |
| security_groups    | No        | Array of <b>SecurityGroup</b> objects     | Security group used by the desktop. If no security group is specified, the security group specified in the desktop agent is used by default.                           |
| authorized_objects | No        | Array of <b>AuthorizedObjects</b> objects | Users or user groups to be authorized.                                                                                                                                 |
| ou_name            | No        | String                                    | OU name, which is used for connecting to the AD. An OU must be created in the AD in advance.                                                                           |

| Parameter                     | Mandatory | Type                          | Description                                                                                                                                                                                                                  |
|-------------------------------|-----------|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| tags                          | No        | Array of <b>Tag</b> objects   | Tags.                                                                                                                                                                                                                        |
| enterprise_project_id         | No        | String                        | Enterprise project ID, which is <b>0</b> by default.                                                                                                                                                                         |
| disconnected_retention_period | No        | Integer                       | Number of minutes within which the binding relationship between a user and a desktop is retained when the dynamic pool desktop is disconnected. After the binding relationship times out, the user is automatically unbound. |
| enable_autoscale              | No        | Boolean                       | Specifies whether to enable auto scaling for the desktop pool. The value <b>false</b> indicates that auto scaling is disabled, and the value <b>true</b> indicates that auto scaling is enabled.                             |
| autoscale_policy              | No        | <b>AutoscalePolicy</b> object | Auto scaling policy.                                                                                                                                                                                                         |
| desktop_name_policy_id        | No        | String                        | Policy ID, which is used to specify the desktop name generation policy.                                                                                                                                                      |

**Table 4-692** VolumeInfo

| Parameter          | Mandatory | Type    | Description                                                                                                                                                                               |
|--------------------|-----------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id                 | No        | String  | Specifies the IDs of the disks to be operated in batches.                                                                                                                                 |
| type               | Yes       | String  | Desktop data disk type, which must be the same as the disk type provided by the system. <ul style="list-style-type: none"> <li>• SAS: High I/O;</li> <li>• SSD: Ultra-high I/O</li> </ul> |
| size               | Yes       | Integer | Disk capacity in GB.                                                                                                                                                                      |
| resource_spec_code | No        | String  | Specifications.                                                                                                                                                                           |

**Table 4-693** SecurityGroup

| Parameter | Mandatory | Type   | Description        |
|-----------|-----------|--------|--------------------|
| id        | Yes       | String | Security group ID. |

**Table 4-694** AuthorizedObjects

| Parameter   | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| object_type | Yes       | String | Enumeration of bound object types. <ul style="list-style-type: none"> <li>• USER: user</li> <li>• USER_GROUP: user group</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                         |
| object_id   | Yes       | String | User ID or user group ID.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| object_name | Yes       | String | Username or user group name.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| user_group  | Yes       | String | Specifies the user permission group to which the desktop user belongs. <ul style="list-style-type: none"> <li>• sudo: Linux administrator group.</li> <li>• default: Default Linux user group.</li> <li>• administrators: Windows administrator group. Administrators have full access to the desktop and can make any required changes except for forbidden operations.</li> <li>• users: Standard Windows user group. Standard users can use most software programs and change system settings that do not affect other users.</li> </ul> |
| created_at  | No        | String | Creation time. The value is in UTC format, for example, 2022-05-11T11:45:42.000Z.                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

**Table 4-695** Tag

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                                                                                                       |
|-----------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| key       | Yes       | String | Specifies the tag key. This parameter cannot be left blank and can contain a maximum of 128 Unicode characters. The value can contain uppercase letters, lowercase letters, digits, hyphens (-), and underscores (_). The value cannot contain the following characters: =*<>, /. |
| value     | No        | String | Value of a tag, which can contain a maximum of 43 Unicode characters. The value can contain uppercase letters, lowercase letters, digits, hyphens (-), and underscores (_). The value cannot contain the following characters: =*<>, /.                                           |

**Table 4-696** AutoscalePolicy

| Parameter         | Mandatory | Type    | Description                                                                                                             |
|-------------------|-----------|---------|-------------------------------------------------------------------------------------------------------------------------|
| autoscale_type    | No        | String  | Auto scaling type. The options are as follows:<br>ACCESS_CREATED: created during access;<br>AUTO_CREATED: auto scaling. |
| max_auto_created  | No        | Integer | Maximum number of desktops that can be automatically created.                                                           |
| min_idle          | No        | Integer | When the number of idle desktops is less than the value of this parameter, desktops are automatically created.          |
| once_auto_created | No        | Integer | Number of desktops that can be automatically created at a time.                                                         |

## Response Parameters

**Status code: 200**

**Table 4-697** Response body parameters

| Parameter | Type   | Description                            |
|-----------|--------|----------------------------------------|
| job_id    | String | ID of the cloud desktop creation task. |

**Status code: 400****Table 4-698** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-699** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403**

**Table 4-700** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-701** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-702** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

## Example Requests

```
{
 "name" : "POOL01",
 "type" : "STATIC",
 "size" : 50,
 "image_type" : "gold",
 "image_id" : "a866298d-67db-44b0-a1f1-9d09bddd20f",
 "root_volume" : {
 "type" : "SAS",
 "size" : 80
 },
 "availability_zone" : "az3.manage.x86",
 "subnet_ids" : ["5dee0216-2260-47c2-9368-98a27d910e55"],
 "product_id" : "workspace.c2.large.windows.2"
}
```

## Example Responses

**Status code: 200**

Response to the request for creating a desktop pool.

```
{
 "job_id" : "3979904c-7beb-4f34-835f-2fa989a5550a"
}
```

## Status Codes

| Status Code | Description                                                                                           |
|-------------|-------------------------------------------------------------------------------------------------------|
| 200         | Response to the request for creating a desktop pool.                                                  |
| 400         | The request cannot be understood by the server due to malformed syntax.                               |
| 401         | Authentication failed.                                                                                |
| 403         | No operation permissions.                                                                             |
| 404         | No resources found.                                                                                   |
| 500         | An internal service error occurred. For details about the error code, see the error code description. |

## Error Codes

See [Error Codes](#).

### 4.4.2 Querying Desktop Pools

#### Function

Query desktop pools.

## Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

## URI

GET /v2/{project\_id}/desktop-pools

**Table 4-703** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

**Table 4-704** Query Parameters

| Parameter             | Mandatory | Type    | Description                                                                                       |
|-----------------------|-----------|---------|---------------------------------------------------------------------------------------------------|
| name                  | No        | String  | Desktop pool name.                                                                                |
| type                  | No        | String  | Desktop pool type. The options are <b>DYNAMIC</b> (dynamic pool) and <b>STATIC</b> (static pool). |
| enterprise_project_id | No        | String  | Enterprise project ID.                                                                            |
| offset                | No        | Integer | Start position for pagination query. The value starts from 0.                                     |
| limit                 | No        | Integer | Pagination query. The value ranges from 0 to 1000 and defaults to <b>1000</b> .                   |
| in_maintenance_mode   | No        | Boolean | Filters by maintenance status.                                                                    |



## Request Parameters

**Table 4-705** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                         |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |

## Response Parameters

Status code: 200

**Table 4-706** Response body parameters

| Parameter     | Type                                                   | Description               |
|---------------|--------------------------------------------------------|---------------------------|
| total_count   | Integer                                                | Total number.             |
| desktop_pools | Array of <a href="#">SimpleDesktopPoolInfo</a> objects | Desktop pool information. |

**Table 4-707** SimpleDesktopPoolInfo

| Parameter     | Type    | Description                                                                                |
|---------------|---------|--------------------------------------------------------------------------------------------|
| id            | String  | Specifies the desktop pool ID.                                                             |
| name          | String  | Desktop pool name.                                                                         |
| type          | String  | Desktop pool type. DYNAMIC: dynamic pool; STATIC: static pool.                             |
| description   | String  | Desktop pool description.                                                                  |
| created_time  | String  | Specifies the creation time in UTC format, for example, 2022-05-11T11:45:42.000Z.          |
| charging_mode | String  | Specifies the billing mode. The value can be <b>0</b> (monthly) or <b>1</b> (pay-per-use). |
| desktop_count | Integer | Total number of desktops in the desktop pool.                                              |

| Parameter                     | Type                                      | Description                                                                                                                                                                                                                  |
|-------------------------------|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| desktop_used                  | Integer                                   | Number of desktops bound to users in the desktop pool.                                                                                                                                                                       |
| availability_zone             | String                                    | AZ.                                                                                                                                                                                                                          |
| subnet_id                     | String                                    | Subnet ID.                                                                                                                                                                                                                   |
| product                       | <b>ProductInfo</b> object                 | Product information.                                                                                                                                                                                                         |
| image_id                      | String                                    | Image ID.                                                                                                                                                                                                                    |
| image_name                    | String                                    | Image name.                                                                                                                                                                                                                  |
| image_os_type                 | String                                    | Specifies the image OS type.                                                                                                                                                                                                 |
| image_os_version              | String                                    | Specifies the image OS version.                                                                                                                                                                                              |
| image_os_platform             | String                                    | Image OS platform.                                                                                                                                                                                                           |
| image_product_code            | String                                    | productCode (specCode) of an image.                                                                                                                                                                                          |
| root_volume                   | <b>VolumInfo</b> object                   | System disk.                                                                                                                                                                                                                 |
| data_volumes                  | Array of <b>VolumInfo</b> objects         | Data disks.                                                                                                                                                                                                                  |
| security_groups               | Array of <b>SecurityGroupInfo</b> objects | Desktop security group.                                                                                                                                                                                                      |
| disconnected_retention_period | Integer                                   | Number of minutes within which the binding relationship between a user and a desktop is retained when the dynamic pool desktop is disconnected. After the binding relationship times out, the user is automatically unbound. |
| enable_autoscale              | Boolean                                   | Specifies whether to enable auto scaling for the desktop pool. The value <b>false</b> indicates that auto scaling is disabled, and the value <b>true</b> indicates that auto scaling is enabled.                             |
| autoscale_policy              | <b>AutoscalePolicy</b> object             | Auto scaling policy.                                                                                                                                                                                                         |

| Parameter              | Type    | Description                                                                                                                                                                                                |
|------------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| status                 | String  | Desktop pool status. <ul style="list-style-type: none"> <li>• STEADY: Steady</li> <li>• TEMPORARY: Temporary</li> <li>• EXIST_FROZEN: Frozen desktops exist.</li> <li>• UNKNOWN: Unknown status</li> </ul> |
| enterprise_project_id  | String  | Enterprise project ID.                                                                                                                                                                                     |
| in_maintenance_mode    | Boolean | Whether a desktop pool is in administrator maintenance mode.                                                                                                                                               |
| desktop_name_policy_id | String  | Policy ID, which is used to specify the desktop name generation policy.                                                                                                                                    |

**Table 4-708** ProductInfo

| Parameter    | Type    | Description                                                                                                                                                                                                         |
|--------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| product_id   | String  | Product ID.                                                                                                                                                                                                         |
| flavor_id    | String  | Specifications ID.                                                                                                                                                                                                  |
| type         | String  | Product type. <ul style="list-style-type: none"> <li>• BASE: basic product package. OS is the only commercial software product in the package. Only this type of package can be used for private images.</li> </ul> |
| cpu          | String  | CPU.                                                                                                                                                                                                                |
| memory       | String  | Memory.                                                                                                                                                                                                             |
| descriptions | String  | Product description.                                                                                                                                                                                                |
| charge_mode  | String  | Billing type of the package. 1 indicates yearly/monthly billing, and 0 indicates pay-per-use billing.                                                                                                               |
| architecture | String  | Product architecture.                                                                                                                                                                                               |
| is_gpu       | Boolean | Whether the specifications are of the GPU type.                                                                                                                                                                     |

| Parameter           | Type    | Description                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| package_type        | String  | Package type. <ul style="list-style-type: none"> <li>• <b>ultimate</b>: ultimate edition</li> <li>• <b>enterprise</b>: enterprise edition</li> <li>• <b>general</b>: general office edition</li> <li>• <b>workstation</b>: cloud workstation edition</li> <li>• <b>dedicated</b>: dedicated edition</li> <li>• <b>solver</b>: solver edition</li> <li>• <b>agile</b>: agile office edition</li> </ul> |
| system_disk_type    | String  | System disk type.                                                                                                                                                                                                                                                                                                                                                                                     |
| system_disk_size    | String  | System disk size.                                                                                                                                                                                                                                                                                                                                                                                     |
| contain_data_disk   | Boolean | Whether data disks are included in the package billing. <b>off</b> indicates no.                                                                                                                                                                                                                                                                                                                      |
| resource_type       | String  | Resource type.                                                                                                                                                                                                                                                                                                                                                                                        |
| cloud_service_type  | String  | Cloud service type.                                                                                                                                                                                                                                                                                                                                                                                   |
| volume_product_type | String  | Disk type.                                                                                                                                                                                                                                                                                                                                                                                            |
| status              | String  | The status can be <b>normal</b> (by default, on sale), <b>sellout</b> (sold out), and <b>abandon</b> (unavailable).                                                                                                                                                                                                                                                                                   |

**Table 4-709** VolumeInfo

| Parameter          | Type    | Description                                                                                                                                                                               |
|--------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id                 | String  | Specifies the IDs of the disks to be operated in batches.                                                                                                                                 |
| type               | String  | Desktop data disk type, which must be the same as the disk type provided by the system. <ul style="list-style-type: none"> <li>• SAS: High I/O;</li> <li>• SSD: Ultra-high I/O</li> </ul> |
| size               | Integer | Disk capacity in GB.                                                                                                                                                                      |
| resource_spec_code | String  | Specifications.                                                                                                                                                                           |

**Table 4-710** SecurityGroupInfo

| Parameter | Type   | Description          |
|-----------|--------|----------------------|
| id        | String | Security group ID.   |
| name      | String | Security group name. |

**Table 4-711** AutoscalePolicy

| Parameter         | Type    | Description                                                                                                       |
|-------------------|---------|-------------------------------------------------------------------------------------------------------------------|
| autoscale_type    | String  | Auto scaling type. The options are as follows: ACCESS_CREATED: created during access; AUTO_CREATED: auto scaling. |
| max_auto_created  | Integer | Maximum number of desktops that can be automatically created.                                                     |
| min_idle          | Integer | When the number of idle desktops is less than the value of this parameter, desktops are automatically created.    |
| once_auto_created | Integer | Number of desktops that can be automatically created at a time.                                                   |

**Status code: 400****Table 4-712** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401**

**Table 4-713** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-714** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-715** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-716** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Example Requests**

```
/v2/bcae3e673fd04716a3b9dacdf58ca336/desktop-pools
```

**Example Responses****Status code: 200**

Response to the request for querying desktop pools.

```
{
 "total_count": 2,
 "desktop_pools": [{
 "id": "ca689892-25f2-4c68-88cb-56be3565f3f5",
 "name": "POOL1",
 "type": "STATIC",
 "created_time": "2023-01-04T07:10:56.696Z",
 "root_volume": {
 "type": "SAS",
 "size": 80
 },
 "availability_zone": "cn-north-4a",
 "product": {
 "product_id": "workspace.x86.ultimate.large2",
 "flavor_id": "s6.large.2",
 "type": "BASE",
 "cpu": "2",
 "memory": "4096",
 "descriptions": "Ultimate | 2 vCPUs | 4 GB memory",
 "charge_mode": "1",
 "architecture": "x86",
 "is_gpu": false,
 "package_type": "ultimate",
 "system_disk_type": "SAS",
 "system_disk_size": "80",
 "contain_data_disk": false,
 "resource_type": "hws.resource.type.workspace.desktop",
 "cloud_service_type": "hws.service.type.vdi",
 "volume_product_type": "workspace",
 "status": "normal"
 }
 }, {
 "id": "2c2be3fb-0013-48d5-a081-0731f3473997",
 "name": "POOL2",
```

```

"type" : "DEDICATED",
"created_time" : "2023-01-04T07:10:53.554Z",
"root_volume" : {
 "type" : "SAS",
 "size" : 80
},
"data_volumes" : [{
 "type" : "SAS",
 "size" : 80
}, {
 "type" : "SAS",
 "size" : 80
}],
"availability_zone" : "cn-north-4b",
"product" : {
 "product_id" : "workspace.x86.ultimate.large2",
 "flavor_id" : "s6.large.2",
 "type" : "BASE",
 "cpu" : "2",
 "memory" : "4096",
 "descriptions" : "Ultimate | 2 vCPUs | 4 GB memory",
 "charge_mode" : "1",
 "architecture" : "x86",
 "is_gpu" : false,
 "package_type" : "ultimate",
 "system_disk_type" : "SAS",
 "system_disk_size" : "80",
 "contain_data_disk" : false,
 "resource_type" : "hws.resource.type.workspace.desktop",
 "cloud_service_type" : "hws.service.type.vdi",
 "volume_product_type" : "workspace",
 "status" : "normal"
}
}
}
}

```

## Status Codes

| Status Code | Description                                                                                           |
|-------------|-------------------------------------------------------------------------------------------------------|
| 200         | Response to the request for querying desktop pools.                                                   |
| 400         | The request cannot be understood by the server due to malformed syntax.                               |
| 401         | Authentication failed.                                                                                |
| 403         | No operation permissions.                                                                             |
| 404         | No resources found.                                                                                   |
| 500         | An internal service error occurred. For details about the error code, see the error code description. |

## Error Codes

See [Error Codes](#).



## 4.4.3 Modifying Desktop Pool Attributes

### Function

Modify desktop pool attributes.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

PUT /v2/{project\_id}/desktop-pools/{pool\_id}

**Table 4-717** Path Parameters

| Parameter  | Mandatory | Type   | Description                    |
|------------|-----------|--------|--------------------------------|
| project_id | Yes       | String | Project ID.                    |
| pool_id    | Yes       | String | Specifies the desktop pool ID. |

### Request Parameters

**Table 4-718** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                         |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |

**Table 4-719** Request body parameters

| Parameter   | Mandatory | Type   | Description                                                                                                                                                         |
|-------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| name        | No        | String | Desktop pool name, which must be unique. The desktop name can contain 1 to 255 characters, including uppercase letters, lowercase letters, digits, and hyphens (-). |
| description | No        | String | Desktop pool description.                                                                                                                                           |

| Parameter                     | Mandatory | Type                          | Description                                                                                                                                                                                                     |
|-------------------------------|-----------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ou_name                       | No        | String                        | OU name, which is used for connecting to the AD. An OU must be created in the AD in advance.                                                                                                                    |
| tags                          | No        | Array of <b>Tag</b> objects   | Tags.                                                                                                                                                                                                           |
| disconnected_retention_period | No        | Integer                       | Number of minutes within which the binding relationship between a user and a desktop is retained when the desktop is disconnected. After the binding relationship times out, the user is automatically unbound. |
| enable_autoscale              | No        | Boolean                       | Specifies whether to enable auto scaling for the desktop pool. The value <b>false</b> indicates that auto scaling is disabled, and the value <b>true</b> indicates that auto scaling is enabled.                |
| autoscale_policy              | No        | <b>AutoscalePolicy</b> object | Auto scaling policy.                                                                                                                                                                                            |
| in_maintenance_mode           | No        | Boolean                       | In administrator maintenance mode or not.                                                                                                                                                                       |
| desktop_name_policy_id        | No        | String                        | Policy ID, which is used to specify the desktop name generation policy.                                                                                                                                         |
| availability_zone             | No        | String                        | AZ of a desktop pool. If the AZ of a desktop pool is an edge AZ, the AZ cannot be changed.                                                                                                                      |

**Table 4-720** Tag

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                                                                                                       |
|-----------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| key       | Yes       | String | Specifies the tag key. This parameter cannot be left blank and can contain a maximum of 128 Unicode characters. The value can contain uppercase letters, lowercase letters, digits, hyphens (-), and underscores (_). The value cannot contain the following characters: =*<>, /. |
| value     | No        | String | Value of a tag, which can contain a maximum of 43 Unicode characters. The value can contain uppercase letters, lowercase letters, digits, hyphens (-), and underscores (_). The value cannot contain the following characters: =*<>, /.                                           |

**Table 4-721** AutoscalePolicy

| Parameter         | Mandatory | Type    | Description                                                                                                             |
|-------------------|-----------|---------|-------------------------------------------------------------------------------------------------------------------------|
| autoscale_type    | No        | String  | Auto scaling type. The options are as follows:<br>ACCESS_CREATED: created during access;<br>AUTO_CREATED: auto scaling. |
| max_auto_created  | No        | Integer | Maximum number of desktops that can be automatically created.                                                           |
| min_idle          | No        | Integer | When the number of idle desktops is less than the value of this parameter, desktops are automatically created.          |
| once_auto_created | No        | Integer | Number of desktops that can be automatically created at a time.                                                         |

## Response Parameters

**Status code: 204**

The response is normal and contains no content.

**Status code: 400**

**Table 4-722** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401**

**Table 4-723** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403**

**Table 4-724** Response body parameters

| Parameter    | Type   | Description                                 |
|--------------|--------|---------------------------------------------|
| error_code   | String | Error code, which is returned upon failure. |
| error_msg    | String | Error description.                          |
| error_detail | String | Error details.                              |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-725** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-726** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Example Requests**

```
{
 "name" : "string",
 "description" : "string",
 "ou_name" : "string",
 "tags" : [{
 "key" : "string",
```

```

 "value": "string"
 }],
 "disconnected_retention_period": 43200,
 "enable_autoscale": true,
 "autoscale_policy": {
 "autoscale_type": "string",
 "max_auto_created": 1000,
 "min_idle": 100,
 "once_auto_created": 10
 },
 "in_maintenance_mode": true,
 "desktop_name_policy_id": "string",
 "availability_zone": "string"
}

```

## Example Responses

None

## Status Codes

| Status Code | Description                                                                                           |
|-------------|-------------------------------------------------------------------------------------------------------|
| 204         | The response is normal and contains no content.                                                       |
| 400         | The request cannot be understood by the server due to malformed syntax.                               |
| 401         | Authentication failed.                                                                                |
| 403         | No operation permissions.                                                                             |
| 404         | No resources found.                                                                                   |
| 500         | An internal service error occurred. For details about the error code, see the error code description. |

## Error Codes

See [Error Codes](#).

### 4.4.4 Deleting a Desktop Pool

#### Function

If no desktop exists in a desktop pool, you can delete the desktop pool. The deleted desktop pool cannot be restored.

#### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

## URI

DELETE /v2/{project\_id}/desktop-pools/{pool\_id}

**Table 4-727** Path Parameters

| Parameter  | Mandatory | Type   | Description                    |
|------------|-----------|--------|--------------------------------|
| project_id | Yes       | String | Project ID.                    |
| pool_id    | Yes       | String | Specifies the desktop pool ID. |

## Request Parameters

**Table 4-728** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                         |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |

## Response Parameters

### Status code: 204

The response is normal and contains no content.

### Status code: 400

**Table 4-729** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

### Status code: 401

**Table 4-730** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-731** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-732** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |



**Status code: 409****Table 4-733** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-734** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Example Requests**

```
/v2/0bec5db98280d2d02fd6c00c2de791ce/desktop-pools/a130ab3a-72bf-4b71-baa9-af4987c8e338
```

**Example Responses**

None

**Status Codes**

| Status Code | Description                                     |
|-------------|-------------------------------------------------|
| 204         | The response is normal and contains no content. |

| Status Code | Description                                                                                           |
|-------------|-------------------------------------------------------------------------------------------------------|
| 400         | The request cannot be understood by the server due to malformed syntax.                               |
| 401         | Authentication failed.                                                                                |
| 403         | No operation permissions.                                                                             |
| 404         | No resources found.                                                                                   |
| 409         | Operation conflict.                                                                                   |
| 500         | An internal service error occurred. For details about the error code, see the error code description. |

## Error Codes

See [Error Codes](#).

## 4.4.5 Querying Desktop Pool Details

### Function

Query details about a specified desktop pool by ID.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

GET /v2/{project\_id}/desktop-pools/{pool\_id}

**Table 4-735** Path Parameters

| Parameter  | Mandatory | Type   | Description                    |
|------------|-----------|--------|--------------------------------|
| project_id | Yes       | String | Project ID.                    |
| pool_id    | Yes       | String | Specifies the desktop pool ID. |

## Request Parameters

**Table 4-736** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                         |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |

## Response Parameters

**Status code: 200**

**Table 4-737** Response body parameters

| Parameter         | Type                      | Description                                                                                |
|-------------------|---------------------------|--------------------------------------------------------------------------------------------|
| id                | String                    | Specifies the desktop pool ID.                                                             |
| name              | String                    | Desktop pool name.                                                                         |
| type              | String                    | Desktop pool type. DYNAMIC: dynamic pool; STATIC: static pool.                             |
| description       | String                    | Desktop pool description.                                                                  |
| created_time      | String                    | Specifies the creation time in UTC format, for example, 2022-05-11T11:45:42.000Z.          |
| charging_mode     | String                    | Specifies the billing mode. The value can be <b>0</b> (monthly) or <b>1</b> (pay-per-use). |
| desktop_count     | Integer                   | Total number of desktops in the desktop pool.                                              |
| desktop_used      | Integer                   | Number of desktops bound to users in the desktop pool.                                     |
| availability_zone | String                    | AZ.                                                                                        |
| subnet_id         | String                    | Subnet ID.                                                                                 |
| product           | <b>ProductInfo</b> object | Product information.                                                                       |
| image_id          | String                    | Image ID.                                                                                  |
| image_name        | String                    | Image name.                                                                                |
| image_os_type     | String                    | Specifies the image OS type.                                                               |

| Parameter                     | Type                                               | Description                                                                                                                                                                                                                  |
|-------------------------------|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| image_os_version              | String                                             | Specifies the image OS version.                                                                                                                                                                                              |
| image_os_platform             | String                                             | Image OS platform.                                                                                                                                                                                                           |
| image_product_code            | String                                             | productCode (specCode) of an image.                                                                                                                                                                                          |
| root_volume                   | <a href="#">VolumeInfo</a> object                  | System disk.                                                                                                                                                                                                                 |
| data_volumes                  | Array of <a href="#">VolumeInfo</a> objects        | Data disks.                                                                                                                                                                                                                  |
| security_groups               | Array of <a href="#">SecurityGroupInfo</a> objects | Desktop security group.                                                                                                                                                                                                      |
| disconnected_retention_period | Integer                                            | Number of minutes within which the binding relationship between a user and a desktop is retained when the dynamic pool desktop is disconnected. After the binding relationship times out, the user is automatically unbound. |
| enable_autoscale              | Boolean                                            | Specifies whether to enable auto scaling for the desktop pool. The value <b>false</b> indicates that auto scaling is disabled, and the value <b>true</b> indicates that auto scaling is enabled.                             |
| autoscale_policy              | <a href="#">AutoscalePolicy</a> object             | Auto scaling policy.                                                                                                                                                                                                         |
| status                        | String                                             | Desktop pool status. <ul style="list-style-type: none"> <li>• STEADY: Steady</li> <li>• TEMPORARY: Temporary</li> <li>• EXIST_FROZEN: Frozen desktops exist.</li> <li>• UNKNOWN: Unknown status</li> </ul>                   |
| enterprise_project_id         | String                                             | Enterprise project ID.                                                                                                                                                                                                       |
| in_maintenance_mode           | Boolean                                            | Whether a desktop pool is in administrator maintenance mode.                                                                                                                                                                 |
| desktop_name_policy_id        | String                                             | Policy ID, which is used to specify the desktop name generation policy.                                                                                                                                                      |

**Table 4-738** ProductInfo

| Parameter           | Type    | Description                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| product_id          | String  | Product ID.                                                                                                                                                                                                                                                                                                                                                                                           |
| flavor_id           | String  | Specifications ID.                                                                                                                                                                                                                                                                                                                                                                                    |
| type                | String  | Product type. <ul style="list-style-type: none"> <li>• <b>BASE</b>: basic product package. OS is the only commercial software product in the package. Only this type of package can be used for private images.</li> </ul>                                                                                                                                                                            |
| cpu                 | String  | CPU.                                                                                                                                                                                                                                                                                                                                                                                                  |
| memory              | String  | Memory.                                                                                                                                                                                                                                                                                                                                                                                               |
| descriptions        | String  | Product description.                                                                                                                                                                                                                                                                                                                                                                                  |
| charge_mode         | String  | Billing type of the package. 1 indicates yearly/monthly billing, and 0 indicates pay-per-use billing.                                                                                                                                                                                                                                                                                                 |
| architecture        | String  | Product architecture.                                                                                                                                                                                                                                                                                                                                                                                 |
| is_gpu              | Boolean | Whether the specifications are of the GPU type.                                                                                                                                                                                                                                                                                                                                                       |
| package_type        | String  | Package type. <ul style="list-style-type: none"> <li>• <b>ultimate</b>: ultimate edition</li> <li>• <b>enterprise</b>: enterprise edition</li> <li>• <b>general</b>: general office edition</li> <li>• <b>workstation</b>: cloud workstation edition</li> <li>• <b>dedicated</b>: dedicated edition</li> <li>• <b>solver</b>: solver edition</li> <li>• <b>agile</b>: agile office edition</li> </ul> |
| system_disk_type    | String  | System disk type.                                                                                                                                                                                                                                                                                                                                                                                     |
| system_disk_size    | String  | System disk size.                                                                                                                                                                                                                                                                                                                                                                                     |
| contain_data_disk   | Boolean | Whether data disks are included in the package billing. <b>off</b> indicates no.                                                                                                                                                                                                                                                                                                                      |
| resource_type       | String  | Resource type.                                                                                                                                                                                                                                                                                                                                                                                        |
| cloud_service_type  | String  | Cloud service type.                                                                                                                                                                                                                                                                                                                                                                                   |
| volume_product_type | String  | Disk type.                                                                                                                                                                                                                                                                                                                                                                                            |

| Parameter | Type   | Description                                                                                                         |
|-----------|--------|---------------------------------------------------------------------------------------------------------------------|
| status    | String | The status can be <b>normal</b> (by default, on sale), <b>sellout</b> (sold out), and <b>abandon</b> (unavailable). |

**Table 4-739** VolumeInfo

| Parameter          | Type    | Description                                                                                                                                                                               |
|--------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id                 | String  | Specifies the IDs of the disks to be operated in batches.                                                                                                                                 |
| type               | String  | Desktop data disk type, which must be the same as the disk type provided by the system. <ul style="list-style-type: none"> <li>• SAS: High I/O;</li> <li>• SSD: Ultra-high I/O</li> </ul> |
| size               | Integer | Disk capacity in GB.                                                                                                                                                                      |
| resource_spec_code | String  | Specifications.                                                                                                                                                                           |

**Table 4-740** SecurityGroupInfo

| Parameter | Type   | Description          |
|-----------|--------|----------------------|
| id        | String | Security group ID.   |
| name      | String | Security group name. |

**Table 4-741** AutoscalePolicy

| Parameter        | Type    | Description                                                                                                       |
|------------------|---------|-------------------------------------------------------------------------------------------------------------------|
| autoscale_type   | String  | Auto scaling type. The options are as follows: ACCESS_CREATED: created during access; AUTO_CREATED: auto scaling. |
| max_auto_created | Integer | Maximum number of desktops that can be automatically created.                                                     |
| min_idle         | Integer | When the number of idle desktops is less than the value of this parameter, desktops are automatically created.    |

| Parameter         | Type    | Description                                                     |
|-------------------|---------|-----------------------------------------------------------------|
| once_auto_created | Integer | Number of desktops that can be automatically created at a time. |

**Status code: 400****Table 4-742** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-743** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-744** Response body parameters

| Parameter  | Type   | Description                                 |
|------------|--------|---------------------------------------------|
| error_code | String | Error code, which is returned upon failure. |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-745** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-746** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Example Requests**

```
/v2/0bec5db98280d2d02fd6c00c2de791ce/desktops-pools/a130ab3a-72bf-4b71-baa9-af4987c8e338
```



## Example Responses

### Status code: 200

Normal.

```
{
 "id": "1ad74b36-0de7-45fe-aed3-6cb047d69e99",
 "name": "yay-test",
 "type": "STATIC",
 "description": "",
 "created_time": "2025-05-22T09:48:47Z",
 "charging_mode": "1",
 "desktop_count": 10,
 "desktop_used": 0,
 "availability_zone": "cn-north-7c",
 "subnet_id": "c7f30df4-f3ac-4807-9599-18950b05455f",
 "product": {
 "product_id": "workspace.x86.ultimate.large2",
 "flavor_id": "c7.large.2",
 "type": "BASE",
 "cpu": "2",
 "memory": "4096",
 "descriptions": "Ultimate | 2 vCPUs | 4 GB memory",
 "charge_mode": "1",
 "architecture": "x86",
 "package_type": "ultimate",
 "system_disk_type": "SAS",
 "system_disk_size": "140",
 "contain_data_disk": false,
 "resource_type": "hws.resource.type.workspace.desktop",
 "cloud_service_type": "hws.service.type.vdi",
 "volume_product_type": "workspace",
 "status": "normal"
 },
 "image_id": "cc3bbc0b-9441-461b-b80b-48c52f3aed08",
 "image_name": "WKS_WIN1064_UserImage",
 "image_os_type": "Windows",
 "image_os_version": "Windows 10 64bit",
 "image_os_platform": "Windows",
 "root_volume": {
 "id": "651d3724-fa85-420a-ab5f-ff531629747f",
 "type": "SAS",
 "size": 80
 },
 "data_volumes": [{
 "id": "305d3c76-199f-4407-8d82-2a42d970595e",
 "type": "SAS",
 "size": 10
 }, {
 "id": "9969022b-557d-4c1e-b22f-e7736ebe30af",
 "type": "SAS",
 "size": 10
 }],
 "security_groups": [],
 "disconnected_retention_period": 0,
 "enable_autoscale": true,
 "autoscale_policy": {
 "autoscale_type": "AUTO_CREATED",
 "max_auto_created": 1,
 "min_idle": 10,
 "once_auto_created": 1
 },
 "status": "STEADY",
 "enterprise_project_id": "0",
 "in_maintenance_mode": false
}
```

## Status Codes

| Status Code | Description                                                                                           |
|-------------|-------------------------------------------------------------------------------------------------------|
| 200         | Normal.                                                                                               |
| 400         | The request cannot be understood by the server due to malformed syntax.                               |
| 401         | Authentication failed.                                                                                |
| 403         | No operation permissions.                                                                             |
| 404         | No resources found.                                                                                   |
| 500         | An internal service error occurred. For details about the error code, see the error code description. |

## Error Codes

See [Error Codes](#).

## 4.4.6 Expanding the Desktop Pool Capacity

### Function

Expand the desktop pool capacity.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

POST /v2/{project\_id}/desktop-pools/{pool\_id}/expand

**Table 4-747** Path Parameters

| Parameter  | Mandatory | Type   | Description                    |
|------------|-----------|--------|--------------------------------|
| project_id | Yes       | String | Project ID.                    |
| pool_id    | Yes       | String | Specifies the desktop pool ID. |

## Request Parameters

**Table 4-748** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                         |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |

**Table 4-749** Request body parameters

| Parameter | Mandatory | Type    | Description                          |
|-----------|-----------|---------|--------------------------------------|
| size      | Yes       | Integer | Expand the size of the desktop pool. |

## Response Parameters

**Status code: 200**

**Table 4-750** Response body parameters

| Parameter | Type   | Description                            |
|-----------|--------|----------------------------------------|
| job_id    | String | ID of the cloud desktop creation task. |

**Status code: 400**

**Table 4-751** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-752** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-753** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-754** Response body parameters

| Parameter    | Type   | Description                                 |
|--------------|--------|---------------------------------------------|
| error_code   | String | Error code, which is returned upon failure. |
| error_msg    | String | Error description.                          |
| error_detail | String | Error details.                              |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 409****Table 4-755** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-756** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Example Requests**

```
{
 "size" : 10
}
```

## Example Responses

### Status code: 200

Normal.

```
{
 "job_id" : "abc85365-0b2e-4b4f-a091-f7db72072d4b"
}
```

## Status Codes

| Status Code | Description                                                                                           |
|-------------|-------------------------------------------------------------------------------------------------------|
| 200         | Normal.                                                                                               |
| 400         | The request cannot be understood by the server due to malformed syntax.                               |
| 401         | Authentication failed.                                                                                |
| 403         | No operation permissions.                                                                             |
| 404         | No resources found.                                                                                   |
| 409         | Operation conflict.                                                                                   |
| 500         | An internal service error occurred. For details about the error code, see the error code description. |

## Error Codes

See [Error Codes](#).

## 4.4.7 Change desktop pool specifications

### Function

Modifies desktop pool specifications.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

POST /v2/{project\_id}/desktop-pools/{pool\_id}/resize

**Table 4-757** Path Parameters

| Parameter  | Mandatory | Type   | Description                    |
|------------|-----------|--------|--------------------------------|
| project_id | Yes       | String | Project ID.                    |
| pool_id    | Yes       | String | Specifies the desktop pool ID. |

## Request Parameters

**Table 4-758** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                         |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |

**Table 4-759** Request body parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                                          |
|------------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| product_id | Yes       | String | Specifies the product ID of the target specifications.                                                                                                                                                               |
| flavor_id  | No        | String | Product specification ID. This parameter is mandatory when the AZ is an edge AZ.                                                                                                                                     |
| mode       | No        | String | Whether specifications can be modified when the desktop is started. The value is fixed to <b>STOP_DESKTOP</b> . If the desktop has been started, the desktop will be stopped before the specifications are modified. |

## Response Parameters

**Status code: 200**

**Table 4-760** Response body parameters

| Parameter | Type                                                          | Description                                                                           |
|-----------|---------------------------------------------------------------|---------------------------------------------------------------------------------------|
| job_id    | String                                                        | ID of the cloud desktop creation task.                                                |
| jobs      | Array of <a href="#">ResizeDesktopPoolJobResponse</a> objects | Task information returned after the specifications of on-demand desktops are changed. |

**Table 4-761** ResizeDesktopPoolJobResponse

| Parameter  | Type   | Description |
|------------|--------|-------------|
| desktop_id | String | Desktop ID. |
| job_id     | String | Task ID.    |

**Status code: 400****Table 4-762** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-763** Response body parameters

| Parameter    | Type   | Description                                 |
|--------------|--------|---------------------------------------------|
| error_code   | String | Error code, which is returned upon failure. |
| error_msg    | String | Error description.                          |
| error_detail | String | Error details.                              |



| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-764** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-765** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 409**

**Table 4-766** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-767** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

## Example Requests

```
{
 "product_id" : "workspace.x86.ultimate.xlarge2"
}
```

## Example Responses

**Status code: 200**

Normal.

```
{
 "job_id" : "abc85365-0b2e-4b4f-a091-f7db72072d4b"
}
```

## Status Codes

| Status Code | Description                                                                                           |
|-------------|-------------------------------------------------------------------------------------------------------|
| 200         | Normal.                                                                                               |
| 400         | The request cannot be understood by the server due to malformed syntax.                               |
| 401         | Authentication failed.                                                                                |
| 403         | No operation permissions.                                                                             |
| 404         | No resources found.                                                                                   |
| 409         | Operation conflict.                                                                                   |
| 500         | An internal service error occurred. For details about the error code, see the error code description. |

## Error Codes

See [Error Codes](#).

### 4.4.8 Recompose the system disk in the desktop pool

#### Function

Recompose the system disk of a desktop pool.

#### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

#### URI

POST /v2/{project\_id}/desktop-pools/{pool\_id}/rebuild

**Table 4-768** Path Parameters

| Parameter  | Mandatory | Type   | Description                    |
|------------|-----------|--------|--------------------------------|
| project_id | Yes       | String | Project ID.                    |
| pool_id    | Yes       | String | Specifies the desktop pool ID. |

## Request Parameters

**Table 4-769** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                         |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |

**Table 4-770** Request body parameters

| Parameter  | Mandatory | Type    | Description                                                                                                                                                                                                                                             |
|------------|-----------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| image_type | No        | String  | Image type.                                                                                                                                                                                                                                             |
| image_id   | Yes       | String  | Template ID.                                                                                                                                                                                                                                            |
| os_type    | No        | String  | OS type.                                                                                                                                                                                                                                                |
| delay_time | No        | Integer | Time reserved for users to save data during immediate recomposing (unit: minute).                                                                                                                                                                       |
| message    | No        | String  | Message sent to a user when a system disk recomposing task is delivered.                                                                                                                                                                                |
| order_id   | No        | String  | Order ID, which is used to recompose the system disk of a yearly/monthly-billed desktop. This parameter is mandatory when billed images are used.                                                                                                       |
| is_fix     | No        | Boolean | Indicates whether to repair desktops whose image IDs are different from those in the desktop pool. This parameter is used to repair desktops whose image IDs are different from those in the desktop pool when the desktop pool fails to switch images. |

## Response Parameters

**Status code: 200**

**Table 4-771** Response body parameters

| Parameter | Type   | Description                                                           |
|-----------|--------|-----------------------------------------------------------------------|
| job_id    | String | Specifies the ID of the general task for recomposing the system disk. |

**Status code: 400****Table 4-772** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-773** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403**

**Table 4-774** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-775** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 409****Table 4-776** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-777** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Example Requests**

```
{
 "image_type": "string",
 "image_id": "string",
 "os_type": "string",
 "delay_time": 15,
 "message": "string",
 "order_id": "string",
 "is_fix": false
}
```

**Example Responses****Status code: 200**

Normal.

```
{
 "job_id": "abc85365-0b2e-4b4f-a091-f7db72072d4b"
}
```

**Status Codes**

| Status Code | Description                                                             |
|-------------|-------------------------------------------------------------------------|
| 200         | Normal.                                                                 |
| 400         | The request cannot be understood by the server due to malformed syntax. |
| 401         | Authentication failed.                                                  |
| 403         | No operation permissions.                                               |
| 404         | No resources found.                                                     |
| 409         | Operation conflict.                                                     |

| Status Code | Description                                                                                           |
|-------------|-------------------------------------------------------------------------------------------------------|
| 500         | An internal service error occurred. For details about the error code, see the error code description. |

## Error Codes

See [Error Codes](#).

## 4.4.9 Adding Disks in Batches to the Desktop Pool

### Function

Add disks in batches to the desktop pool.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

POST /v2/{project\_id}/desktop-pools/{pool\_id}/volumes/batch-add

**Table 4-778** Path Parameters

| Parameter  | Mandatory | Type   | Description                    |
|------------|-----------|--------|--------------------------------|
| project_id | Yes       | String | Project ID.                    |
| pool_id    | Yes       | String | Specifies the desktop pool ID. |

### Request Parameters

**Table 4-779** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                         |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |



**Table 4-780** Request body parameters

| Parameter | Mandatory | Type                                           | Description  |
|-----------|-----------|------------------------------------------------|--------------|
| volumes   | No        | Array of <a href="#">VolumeAddInfo</a> objects | Added disks. |

**Table 4-781** VolumeAddInfo

| Parameter | Mandatory | Type    | Description                                                                                                                                                                               |
|-----------|-----------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id        | No        | String  | Specifies the disk record ID. This parameter is mandatory when you delete or expand a disk.                                                                                               |
| type      | Yes       | String  | Desktop data disk type, which must be the same as the disk type provided by the system. <ul style="list-style-type: none"> <li>• SAS: High I/O;</li> <li>• SSD: Ultra-high I/O</li> </ul> |
| size      | Yes       | Integer | Disk capacity in GB.                                                                                                                                                                      |

## Response Parameters

**Status code: 200**

**Table 4-782** Response body parameters

| Parameter | Type   | Description |
|-----------|--------|-------------|
| job_id    | String | Task ID.    |

**Status code: 400**

**Table 4-783** Response body parameters

| Parameter    | Type   | Description                                 |
|--------------|--------|---------------------------------------------|
| error_code   | String | Error code, which is returned upon failure. |
| error_msg    | String | Error description.                          |
| error_detail | String | Error details.                              |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-784** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-785** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404**

**Table 4-786** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 409****Table 4-787** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-788** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

## Example Requests

```
{
 "volumes" : [{
 "id" : "9969022b-557d-4c1e-b22f-e7736ebe30af",
 "type" : "SAS",
 "size" : 20
 }]
}
```

## Example Responses

**Status code: 200**

Normal.

```
{
 "job_id" : "abc85365-0b2e-4b4f-a091-f7db72072d4b"
}
```

## Status Codes

| Status Code | Description                                                                                           |
|-------------|-------------------------------------------------------------------------------------------------------|
| 200         | Normal.                                                                                               |
| 400         | The request cannot be understood by the server due to malformed syntax.                               |
| 401         | Authentication failed.                                                                                |
| 403         | No operation permissions.                                                                             |
| 404         | No resources found.                                                                                   |
| 409         | Operation conflict.                                                                                   |
| 500         | An internal service error occurred. For details about the error code, see the error code description. |

## Error Codes

See [Error Codes](#).

### 4.4.10 Deleting Disks in Batches from the Desktop Pool

#### Function

Delete disks in batches from the desktop pool.

#### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

## URI

POST /v2/{project\_id}/desktop-pools/{pool\_id}/volumes/batch-delete

**Table 4-789** Path Parameters

| Parameter  | Mandatory | Type   | Description                    |
|------------|-----------|--------|--------------------------------|
| project_id | Yes       | String | Project ID.                    |
| pool_id    | Yes       | String | Specifies the desktop pool ID. |

## Request Parameters

**Table 4-790** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                         |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |

**Table 4-791** Request body parameters

| Parameter | Mandatory | Type                                        | Description                        |
|-----------|-----------|---------------------------------------------|------------------------------------|
| volumes   | No        | Array of <a href="#">VolumeInfo</a> objects | Deleted disks in the desktop pool. |

**Table 4-792** VolumeInfo

| Parameter | Mandatory | Type    | Description                                                                                                                                                                           |
|-----------|-----------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id        | No        | String  | Specifies the IDs of the disks to be operated in batches.                                                                                                                             |
| type      | Yes       | String  | Desktop data disk type, which must be the same as the disk type provided by the system. <ul style="list-style-type: none"> <li>SAS: High I/O;</li> <li>SSD: Ultra-high I/O</li> </ul> |
| size      | Yes       | Integer | Disk capacity in GB.                                                                                                                                                                  |

| Parameter          | Mandatory | Type   | Description     |
|--------------------|-----------|--------|-----------------|
| resource_spec_code | No        | String | Specifications. |

## Response Parameters

**Status code: 200**

**Table 4-793** Response body parameters

| Parameter | Type   | Description |
|-----------|--------|-------------|
| job_id    | String | Task ID.    |

**Status code: 400**

**Table 4-794** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401**

**Table 4-795** Response body parameters

| Parameter    | Type   | Description                                 |
|--------------|--------|---------------------------------------------|
| error_code   | String | Error code, which is returned upon failure. |
| error_msg    | String | Error description.                          |
| error_detail | String | Error details.                              |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-796** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-797** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 409**

**Table 4-798** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-799** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

## Example Requests

```
{
 "volumes": [{
 "id": "305d3c76-199f-4407-8d82-2a42d970595e",
 "type": "SAS",
 "size": 10
 }]
}
```

## Example Responses

**Status code: 200**

Normal.

```
{
 "job_id": "abc85365-0b2e-4b4f-a091-f7db72072d4b"
}
```



## Status Codes

| Status Code | Description                                                                                           |
|-------------|-------------------------------------------------------------------------------------------------------|
| 200         | Normal.                                                                                               |
| 400         | The request cannot be understood by the server due to malformed syntax.                               |
| 401         | Authentication failed.                                                                                |
| 403         | No operation permissions.                                                                             |
| 404         | No resources found.                                                                                   |
| 409         | Operation conflict.                                                                                   |
| 500         | An internal service error occurred. For details about the error code, see the error code description. |

## Error Codes

See [Error Codes](#).

### 4.4.11 Expand the capacity of disks in batches in the desktop pool

#### Function

Expand the capacity of disks in batches in the desktop pool.

#### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

#### URI

POST /v2/{project\_id}/desktop-pools/{pool\_id}/volumes/batch-expand

**Table 4-800** Path Parameters

| Parameter  | Mandatory | Type   | Description                    |
|------------|-----------|--------|--------------------------------|
| project_id | Yes       | String | Project ID.                    |
| pool_id    | Yes       | String | Specifies the desktop pool ID. |

## Request Parameters

**Table 4-801** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                         |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |

**Table 4-802** Request body parameters

| Parameter | Mandatory | Type                                | Description                               |
|-----------|-----------|-------------------------------------|-------------------------------------------|
| volumes   | No        | Array of <b>VolumelInfo</b> objects | Disks to be expanded in the desktop pool. |

**Table 4-803** VolumelInfo

| Parameter          | Mandatory | Type    | Description                                                                                                                                                                               |
|--------------------|-----------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id                 | No        | String  | Specifies the IDs of the disks to be operated in batches.                                                                                                                                 |
| type               | Yes       | String  | Desktop data disk type, which must be the same as the disk type provided by the system. <ul style="list-style-type: none"> <li>• SAS: High I/O;</li> <li>• SSD: Ultra-high I/O</li> </ul> |
| size               | Yes       | Integer | Disk capacity in GB.                                                                                                                                                                      |
| resource_spec_code | No        | String  | Specifications.                                                                                                                                                                           |

## Response Parameters

**Status code: 200**

**Table 4-804** Response body parameters

| Parameter | Type   | Description |
|-----------|--------|-------------|
| job_id    | String | Task ID.    |

**Status code: 400****Table 4-805** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-806** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-807** Response body parameters

| Parameter    | Type   | Description                                 |
|--------------|--------|---------------------------------------------|
| error_code   | String | Error code, which is returned upon failure. |
| error_msg    | String | Error description.                          |
| error_detail | String | Error details.                              |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-808** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 409****Table 4-809** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500**

**Table 4-810** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

## Example Requests

```
{
 "order_id": "string",
 "volumes": [{
 "id": "string",
 "type": "string",
 "size": 8200,
 "cluster_id": "string",
 "resource_spec_code": "string"
 }]
}
```

## Example Responses

**Status code: 200**

Normal.

```
{
 "job_id": "abc85365-0b2e-4b4f-a091-f7db72072d4b"
}
```

## Status Codes

| Status Code | Description                                                             |
|-------------|-------------------------------------------------------------------------|
| 200         | Normal.                                                                 |
| 400         | The request cannot be understood by the server due to malformed syntax. |
| 401         | Authentication failed.                                                  |
| 403         | No operation permissions.                                               |
| 404         | No resources found.                                                     |
| 409         | Operation conflict.                                                     |

| Status Code | Description                                                                                           |
|-------------|-------------------------------------------------------------------------------------------------------|
| 500         | An internal service error occurred. For details about the error code, see the error code description. |

## Error Codes

See [Error Codes](#).

## 4.4.12 Performing Operations on a Desktop Pool

### Function

Start, stop, restart, and hibernate desktops in batches in a desktop pool.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

POST /v2/{project\_id}/desktop-pools/{pool\_id}/action

**Table 4-811** Path Parameters

| Parameter  | Mandatory | Type   | Description                    |
|------------|-----------|--------|--------------------------------|
| project_id | Yes       | String | Project ID.                    |
| pool_id    | Yes       | String | Specifies the desktop pool ID. |

### Request Parameters

**Table 4-812** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                         |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |

**Table 4-813** Request body parameters

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                                                                                      |
|-----------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| op_type   | Yes       | String | Operation type.<br>-os-start: Starts the computer.<br>-os-stop: Shuts down the computer.<br>-reboot: Restarts the computer.<br>-hibernate: Hibernates the computer.                                                                                              |
| type      | No        | String | Execution type. For example, if <b>type</b> is set to <b>HARD</b> and <b>op_type</b> is set to <b>os-stop</b> , the computer is forcibly stopped. <ul style="list-style-type: none"> <li>• SOFT: common operation</li> <li>• HARD: forcible operation</li> </ul> |

## Response Parameters

**Status code: 200**

**Table 4-814** Response body parameters

| Parameter | Type   | Description |
|-----------|--------|-------------|
| job_id    | String | Task ID.    |

**Status code: 400**

**Table 4-815** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-816** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-817** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-818** Response body parameters

| Parameter    | Type   | Description                                 |
|--------------|--------|---------------------------------------------|
| error_code   | String | Error code, which is returned upon failure. |
| error_msg    | String | Error description.                          |
| error_detail | String | Error details.                              |



| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 409****Table 4-819** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-820** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Example Requests**

```
{
 "op_type": "os-stop",
 "type": "SOFT"
}
```

## Example Responses

Status code: 200

Normal.

```
{
 "job_id" : "abc85365-0b2e-4b4f-a091-f7db72072d4b"
}
```

## Status Codes

| Status Code | Description                                                                                           |
|-------------|-------------------------------------------------------------------------------------------------------|
| 200         | Normal.                                                                                               |
| 400         | The request cannot be understood by the server due to malformed syntax.                               |
| 401         | Authentication failed.                                                                                |
| 403         | No operation permissions.                                                                             |
| 404         | No resources found.                                                                                   |
| 409         | Operation conflict.                                                                                   |
| 500         | An internal service error occurred. For details about the error code, see the error code description. |

## Error Codes

See [Error Codes](#).

### 4.4.13 Querying Users and User Groups Authorized by the Desktop Pool

#### Function

Query users and user groups authorized by a specified desktop pool.

#### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

#### URI

GET /v2/{project\_id}/desktop-pools/{pool\_id}/users

**Table 4-821** Path Parameters

| Parameter  | Mandatory | Type   | Description                    |
|------------|-----------|--------|--------------------------------|
| project_id | Yes       | String | Project ID.                    |
| pool_id    | Yes       | String | Specifies the desktop pool ID. |

**Table 4-822** Query Parameters

| Parameter | Mandatory | Type    | Description                                                                                                                    |
|-----------|-----------|---------|--------------------------------------------------------------------------------------------------------------------------------|
| offset    | No        | Integer | Where the pagination query starts. The value starts from <b>0</b> .                                                            |
| limit     | No        | Integer | Limits the quantity of returned desktops in pagination query. The value ranges from 0 to 100. The default value is <b>10</b> . |

## Request Parameters

**Table 4-823** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                         |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |

## Response Parameters

Status code: 200

**Table 4-824** Response body parameters

| Parameter   | Type                                      | Description                                                     |
|-------------|-------------------------------------------|-----------------------------------------------------------------|
| objects     | Array of <b>AuthorizedObjects</b> objects | Authorization object.                                           |
| total_count | Integer                                   | Total number of users and user groups that meet the conditions. |

**Table 4-825** AuthorizedObjects

| Parameter   | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| object_type | String | Enumeration of bound object types. <ul style="list-style-type: none"> <li>• USER: user</li> <li>• USER_GROUP: user group</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                         |
| object_id   | String | User ID or user group ID.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| object_name | String | Username or user group name.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| user_group  | String | Specifies the user permission group to which the desktop user belongs. <ul style="list-style-type: none"> <li>• sudo: Linux administrator group.</li> <li>• default: Default Linux user group.</li> <li>• administrators: Windows administrator group. Administrators have full access to the desktop and can make any required changes except for forbidden operations.</li> <li>• users: Standard Windows user group. Standard users can use most software programs and change system settings that do not affect other users.</li> </ul> |
| created_at  | String | Creation time. The value is in UTC format, for example, 2022-05-11T11:45:42.000Z.                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

**Status code: 400****Table 4-826** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401**

**Table 4-827** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-828** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-829** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 409****Table 4-830** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-831** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Example Requests**

```
/v2/bcae3e673fd04716a3b9dacdf58ca336/desktop-pools/a130ab3a-72bf-4b71-baa9-af4987c8e338/users
```

**Example Responses****Status code: 200**

Response to the request for querying users and user groups authorized by the desktop pool.

```
{
 "objects" : [{
 "object_type" : "USER",
 "object_id" : "object_id",
 "object_name" : "2b31e-d520xxxx-xxebdb6-e57xxxxx",
 "user_group" : "administrators",
 "created_at" : "2022-05-11T11:45:42.000Z"
 }],
}
```

```
"total_count" : 1
}
```

## Status Codes

| Status Code | Description                                                                                           |
|-------------|-------------------------------------------------------------------------------------------------------|
| 200         | Response to the request for querying users and user groups authorized by the desktop pool.            |
| 400         | The request cannot be understood by the server due to malformed syntax.                               |
| 401         | Authentication failed.                                                                                |
| 403         | No operation permissions.                                                                             |
| 404         | No resources found.                                                                                   |
| 409         | Operation conflict.                                                                                   |
| 500         | An internal service error occurred. For details about the error code, see the error code description. |

## Error Codes

See [Error Codes](#).

## 4.4.14 Authorized Users and User Groups of the Desktop Pool

### Function

Query users and user groups authorized by a desktop pool.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

POST /v2/{project\_id}/desktop-pools/{pool\_id}/users

**Table 4-832** Path Parameters

| Parameter  | Mandatory | Type   | Description                    |
|------------|-----------|--------|--------------------------------|
| project_id | Yes       | String | Project ID.                    |
| pool_id    | Yes       | String | Specifies the desktop pool ID. |

## Request Parameters

**Table 4-833** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                         |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |

**Table 4-834** Request body parameters

| Parameter | Mandatory | Type                                      | Description                                                                                                                       |
|-----------|-----------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| objects   | No        | Array of <b>AuthorizedObjects</b> objects | Indicates the user or user group to be authorized.                                                                                |
| action    | Yes       | String                                    | Action. Options: <b>ADD</b> (adding an authorized user or user group); <b>REMOVE</b> (removing an authorized user or user group). |

**Table 4-835** AuthorizedObjects

| Parameter   | Mandatory | Type   | Description                                                                                                                         |
|-------------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------|
| object_type | Yes       | String | Enumeration of bound object types. <ul style="list-style-type: none"> <li>• USER: user</li> <li>• USER_GROUP: user group</li> </ul> |
| object_id   | Yes       | String | User ID or user group ID.                                                                                                           |
| object_name | Yes       | String | Username or user group name.                                                                                                        |



| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| user_group | Yes       | String | Specifies the user permission group to which the desktop user belongs. <ul style="list-style-type: none"> <li>• sudo: Linux administrator group.</li> <li>• default: Default Linux user group.</li> <li>• administrators: Windows administrator group. Administrators have full access to the desktop and can make any required changes except for forbidden operations.</li> <li>• users: Standard Windows user group. Standard users can use most software programs and change system settings that do not affect other users.</li> </ul> |
| created_at | No        | String | Creation time. The value is in UTC format, for example, 2022-05-11T11:45:42.000Z.                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

## Response Parameters

**Status code: 204**

Normal, no response body.

**Status code: 400**

**Table 4-836** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-837** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-838** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-839** Response body parameters

| Parameter    | Type   | Description                                 |
|--------------|--------|---------------------------------------------|
| error_code   | String | Error code, which is returned upon failure. |
| error_msg    | String | Error description.                          |
| error_detail | String | Error details.                              |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 409****Table 4-840** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-841** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Example Requests**

```
{
 "objects" : [{
 "object_type" : "string",
 "object_id" : "string",
 "object_name" : "string",
 "user_group" : "string",
```

```
"created_at" : "string"
}],
"action" : "string"
}
```

## Example Responses

None

## Status Codes

| Status Code | Description                                                                                           |
|-------------|-------------------------------------------------------------------------------------------------------|
| 204         | Normal, no response body.                                                                             |
| 400         | The request cannot be understood by the server due to malformed syntax.                               |
| 401         | Authentication failed.                                                                                |
| 403         | No operation permissions.                                                                             |
| 404         | No resources found.                                                                                   |
| 409         | Operation conflict.                                                                                   |
| 500         | An internal service error occurred. For details about the error code, see the error code description. |

## Error Codes

See [Error Codes](#).

## 4.4.15 This interface is used to query desktop information in a desktop pool

### Function

This interface is used to query desktop information in a desktop pool.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

GET /v2/{project\_id}/desktop-pools/{pool\_id}/desktops

**Table 4-842** Path Parameters

| Parameter  | Mandatory | Type   | Description                    |
|------------|-----------|--------|--------------------------------|
| project_id | Yes       | String | Project ID.                    |
| pool_id    | Yes       | String | Specifies the desktop pool ID. |

**Table 4-843** Query Parameters

| Parameter         | Mandatory | Type    | Description                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------|-----------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| inconsistent_type | No        | String  | This type is used to filter desktops whose specifications are different from those of the desktop pool. <ul style="list-style-type: none"> <li>• <b>PRODUCT</b>: Searches for desktops whose <b>productID</b> is different from the desktop pool package ID.</li> <li>• <b>IMAGE</b>: Searches for desktops whose <b>imageID</b> is different from the desktop pool image ID.</li> </ul> |
| offset            | No        | Integer | Where the pagination query starts. The value starts from <b>0</b> .                                                                                                                                                                                                                                                                                                                      |
| limit             | No        | Integer | Limits the quantity of returned desktops in pagination query. The value ranges from 0 to 100. The default value is <b>10</b> .                                                                                                                                                                                                                                                           |

## Request Parameters

**Table 4-844** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                         |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |

## Response Parameters

**Status code: 200**

**Table 4-845** Response body parameters

| Parameter              | Type                                                    | Description                              |
|------------------------|---------------------------------------------------------|------------------------------------------|
| pool_desktops          | Array of <a href="#">PoolDesktopsDetailInfo</a> objects | Pooled desktop details.                  |
| total_count            | Integer                                                 | Total number of desktops.                |
| on_demand_desktops_num | Integer                                                 | Total number of pay-per-use desktops.    |
| period_desktops_num    | Integer                                                 | Total number of yearly/monthly desktops. |

**Table 4-846** PoolDesktopsDetailInfo

| Parameter       | Type                                             | Description                                                                                                                                                                                                                                                               |
|-----------------|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| desktop_id      | String                                           | Desktop ID.                                                                                                                                                                                                                                                               |
| computer_name   | String                                           | Desktop name.                                                                                                                                                                                                                                                             |
| os_host_name    | String                                           | Computer name in the OS.                                                                                                                                                                                                                                                  |
| addresses       | Map<String,Array< <a href="#">AddressInfo</a> >> | Desktop IP addresses.                                                                                                                                                                                                                                                     |
| ip_addresses    | Array of strings                                 | IP addresses.                                                                                                                                                                                                                                                             |
| ipv4            | String                                           | IPv4 address of the computer in the OS.                                                                                                                                                                                                                                   |
| ipv6            | String                                           | IPv6 address of the computer in the OS.                                                                                                                                                                                                                                   |
| user_list       | Array of strings                                 | User list.                                                                                                                                                                                                                                                                |
| user_group_list | Array of strings                                 | User group list.                                                                                                                                                                                                                                                          |
| desktop_type    | String                                           | Desktop type. <ul style="list-style-type: none"> <li>DEDICATED: a dedicated desktop</li> </ul>                                                                                                                                                                            |
| resource_type   | String                                           | <b>resource_type</b> field, which indicates dedicated desktop ( <b>DEDICATED_DESKTOP</b> ), pooled desktop ( <b>POOLED_DESKTOP</b> ), rendering desktop ( <b>RENDER_DESKTOP</b> ), exclusive host ( <b>EXCLUSIVE_HOST</b> ), or shared desktop ( <b>SHARED_DESKTOP</b> ). |

| Parameter | Type                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| metadata  | Map<String,String>                | Desktop metadata. <ul style="list-style-type: none"> <li>• <b>charging_mode</b>: billing mode of the package. <b>1</b> indicates yearly/monthly billing, and <b>0</b> indicates pay-per-use billing.</li> <li>• <b>image_name</b>: name of the image used to create a desktop</li> <li>• <b>bill_resource_id</b>: billing resource ID of the image</li> <li>• <b>metering.image_id</b>: image ID</li> <li>• <b>metering.resourcespeccode</b>: desktop resource code</li> <li>• <b>metering.resourcetype</b>: desktop resource type</li> <li>• <b>os_bit</b>: number of bits of the OS. The value can be <b>32</b> or <b>64</b>.</li> <li>• <b>os_type</b>: OS type. The value can be <b>Linux</b>, <b>Windows</b>, or <b>Others</b>.</li> <li>• <b>desktop_os_version</b>: OS version</li> </ul> |
| flavor    | <a href="#">FlavorInfo</a> object | Product information.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| status    | String                            | Desktop status.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

| Parameter   | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| task_status | String | <p>Task status.</p> <ul style="list-style-type: none"> <li>• <b>scheduling</b>: Resources are being scheduled.</li> <li>• <b>block_device_mapping</b>: The disk is being prepared.</li> <li>• <b>networking</b>: The network is being prepared.</li> <li>• <b>spawning</b>: The task is being created internally.</li> <li>• <b>rebooting</b>: The system is being restarted.</li> <li>• <b>reboot_pending</b>: The task of system restart is being delivered.</li> <li>• <b>reboot_started</b>: The system is being restarted internally.</li> <li>• <b>rebooting_hard</b>: The system is being force restarted.</li> <li>• <b>reboot_pending_hard</b>: The task of force restart is being delivered.</li> <li>• <b>reboot_started_hard</b>: The system is being force restarted internally.</li> <li>• <b>rebuilding</b>: The system is being rebuilt.</li> <li>• <b>rebuild_block_device_mapping</b>: The system is being rebuilt and disks are being prepared.</li> <li>• <b>rebuild_spawning</b>: The system is being rebuilt internally.</li> <li>• <b>migrating</b>: Live migration is being performed.</li> <li>• <b>resize_prep</b>: The specifications are to be adjusted.</li> <li>• <b>resize_migrating</b>: The specifications are being adjusted and the migration is in progress.</li> <li>• <b>resize_migrated</b>: The specifications are being adjusted and the migration has been completed.</li> <li>• <b>resize_finish</b>: The specifications have been adjusted.</li> <li>• <b>resize_reverting</b>: The specification adjustment is being rolled back.</li> <li>• <b>powering-off</b>: The system is being powered off.</li> </ul> |



| Parameter           | Type                                                     | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     |                                                          | <ul style="list-style-type: none"> <li>● <b>powering-on</b>: The system is being powered on.</li> <li>● <b>deleting</b>: Deleting...</li> <li>● <b>deleteFailed</b>: Deletion failed.</li> <li>● <b>updating</b>: Updating...</li> <li>● <b>desktopNetworkChanging</b>: The network is being switched.</li> </ul>                                                                                                                                                                                                                                                                                                             |
| in_maintenance_mode | Boolean                                                  | Whether the desktop is in maintenance mode. The options are <b>true</b> (yes) and <b>false</b> (no).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| created             | String                                                   | Time when a desktop is created.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| security_groups     | Array of <a href="#">SecurityGroupInfo</a> objects       | Desktop security group.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| login_status        | String                                                   | <p>Login status of a desktop.</p> <ul style="list-style-type: none"> <li>● <b>UNREGISTER</b>: The desktop is not registered. After the desktop is started, it is automatically registered. After the desktop is shut down, it is unregistered.</li> <li>● <b>REGISTERED</b>: The desktop has been registered and is waiting for user connections.</li> <li>● <b>CONNECTED</b>: A user has logged in to a desktop and is using it.</li> <li>● <b>DISCONNECTED</b>: The desktop is disconnected from the client because the client window is closed or the networking between the client and desktop is interrupted.</li> </ul> |
| user_name           | String                                                   | User to whom the desktop belongs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| attach_user_infos   | Array of <a href="#">AttachInstancesUserInfo</a> objects | List of users to whom desktops have been assigned.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| product_id          | String                                                   | Product ID.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| share_resource_sku  | String                                                   | Desktop collaboration resource SKU code.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| root_volume         | <a href="#">VolumeDetail</a> object                      | System disk.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

| Parameter           | Type                                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| data_volumes        | Array of <b>VolumeDetail</b> objects | Data disks.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| user_group          | String                               | User group to which the desktop user belongs. <ul style="list-style-type: none"> <li>• sudo: Linux administrator group.</li> <li>• default: Default Linux user group.</li> <li>• administrators: Windows administrator group. Administrators have full access to the desktop and can make any required changes except for forbidden operations.</li> <li>• users: standard Windows user group. Standard users can use most software programs and change system settings that do not affect other users.</li> </ul> |
| availability_zone   | String                               | AZ.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| site_type           | String                               | Site type.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| site_name           | String                               | Site name.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| product             | <b>ProductInfo</b> object            | Product information.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| ou_name             | String                               | Name of the OU to which the desktop is added during desktop creation.                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| os_version          | String                               | OS version.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| sid                 | String                               | SID.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| order_id            | String                               | Order ID of a yearly/monthly product.                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| tags                | Array of <b>Tag</b> objects          | Desktop tags.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| is_support_internet | Boolean                              | Whether to enable the Internet access. The options are <b>true</b> (yes) and <b>false</b> (no).                                                                                                                                                                                                                                                                                                                                                                                                                    |
| internet_mode       | String                               | Network access mode. <ul style="list-style-type: none"> <li>• NAT: indicates the NAT Internet access mode</li> <li>• EIP: indicates the EIP Internet access mode</li> <li>• BOTH: Both the Internet and EIP access modes are supported.</li> </ul>                                                                                                                                                                                                                                                                 |

| Parameter             | Type             | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| internet_mode_list    | Array of strings | Network access modes of desktops.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| is_attaching_eip      | Boolean          | Specifies whether an EIP is being bound to the desktop.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| attach_state          | String           | <p>Allocation status.</p> <ul style="list-style-type: none"> <li>• ATTACHED: allocated.</li> <li>• UNATTACH: Unassigned indicates that the session is not associated.</li> <li>• DEATTACHED: The VM has been unassigned.</li> <li>• ATTACHING: The VM is being allocated.</li> <li>• DEATTACHING: The VM is being unassigned.</li> <li>• ATTACHFAIL: The allocation fails.</li> <li>• DEATTACHFAIL: The VM fails to be unassigned.</li> <li>• WAITING: waiting to be assigned. This state describes the intermediate state from batch assignment (unassignment) to transfer to assignment (unassignment). In addition, this state facilitates the independence of a single association process.</li> <li>• ATTACH_FAIL_CAN_ATTACH_AGAIN : The VM fails to be assigned and can be associated again.</li> <li>• DEATTACH_FAIL_CAN_DEATTACH_AGAIN: The VM fails to be unassigned and can be unassigned again.</li> </ul> |
| enterprise_project_id | String           | Enterprise project ID.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| subnet_id             | String           | Subnet ID of the desktop.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| bill_resource_id      | String           | Billing resource ID of the desktop.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| process               | Integer          | Desktop task progress. The value ranges from 0 to 100, or is <b>null</b> . <b>null</b> indicates that there is no task on the desktop. The value from 0 to 100 indicates the task progress percentage.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| root_resource_id      | String           | Root resource ID of the desktop instance.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

| Parameter          | Type                                   | Description                                                                                                                                                                                                   |
|--------------------|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| hour_package_info  | <a href="#">HourPackageInfo</a> object | Hourly-billed desktop package details.                                                                                                                                                                        |
| inconsistent_types | Array of strings                       | Different specification type between the desktop and the desktop pool: <ul style="list-style-type: none"> <li>• <b>PRODUCT</b>: different product IDs</li> <li>• <b>IMAGE</b>: different image IDs</li> </ul> |

**Table 4-847** AddressInfo

| Parameter               | Type   | Description                                                                                       |
|-------------------------|--------|---------------------------------------------------------------------------------------------------|
| addr                    | String | IP address.                                                                                       |
| version                 | String | IP address type. The value can be <b>4</b> (IPv4) or <b>6</b> (IPv6).                             |
| OS-EXT-IPS-MAC:mac_addr | String | MAC address.                                                                                      |
| OS-EXT-IPS:type         | String | IP address assignment method.<br>-fixed: a private IP address<br>-floating: a floating IP address |

**Table 4-848** FlavorInfo

| Parameter | Type                                            | Description                                                           |
|-----------|-------------------------------------------------|-----------------------------------------------------------------------|
| id        | String                                          | Flavor ID of the desktop.                                             |
| links     | Array of <a href="#">FlavorLinkInfo</a> objects | Shortcut link marker information of the corresponding desktop flavor. |

**Table 4-849** FlavorLinkInfo

| Parameter | Type   | Description                  |
|-----------|--------|------------------------------|
| rel       | String | Shortcut link marker name.   |
| href      | String | Corresponding shortcut link. |

**Table 4-850** SecurityGroupInfo

| Parameter | Type   | Description          |
|-----------|--------|----------------------|
| id        | String | Security group ID.   |
| name      | String | Security group name. |

**Table 4-851** AttachInstancesUserInfo

| Parameter | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| user_id   | String | If <b>type</b> is set to <b>USER</b> , enter the user ID. If <b>type</b> is set to <b>GROUP</b> , enter the user group ID. The backend service checks whether the group ID exists.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| user_name | String | <p>Name of the object assigned with a desktop. If <b>type</b> is set to <b>USER</b>, enter the username. If <b>type</b> is set to <b>GROUP</b>, enter the user group name.</p> <ul style="list-style-type: none"> <li>If <b>type</b> is set to <b>USER</b>, the value is the username of the desktop user. After the desktop is assigned, the user can log in to the desktop. Only letters, digits, hyphens (-), and underscores (_) are allowed. When the domain type is <b>LITE_AD</b>, the value contains 1 to 20 characters starting with a letter. When the domain type is <b>LOCAL_AD</b>, the value contains 1 to 64 characters starting with a letter or digit. A Windows desktop username can contain a maximum of 20 characters, and a Linux desktop username can contain a maximum of 64 characters. The backend service checks whether the username exists. The username cannot be the same as the desktop name.</li> <li>If <b>type</b> is set to <b>GROUP</b>, the value can contain only letters, digits, hyphens (-), and underscores (_).</li> </ul> |

| Parameter  | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| user_group | String | Specifies the user group to which the desktop user belongs. <ul style="list-style-type: none"> <li>• sudo: Linux administrator group.</li> <li>• default: default Linux user group.</li> <li>• administrators: Windows administrator group. Administrators have full access to the desktop and can make any required changes except for forbidden operations.</li> <li>• users: standard Windows user group. Standard users can use most software programs and change system settings that do not affect other users.</li> </ul> |
| type       | String | Object type. Options: <ul style="list-style-type: none"> <li>• <b>USER</b>: user</li> <li>• <b>GROUP</b>: user group</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                  |

Table 4-852 VolumeDetail

| Parameter          | Type    | Description                                                                                                                                                                              |
|--------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| type               | String  | Desktop data disk type, which must be the same as the disk type provided by the system. <ul style="list-style-type: none"> <li>• SAS: High I/O</li> <li>• SSD: Ultra-high I/O</li> </ul> |
| size               | Integer | Disk capacity in GB.                                                                                                                                                                     |
| device             | String  | Directory to which the disk is mounted.                                                                                                                                                  |
| id                 | String  | Unique ID of the disk.                                                                                                                                                                   |
| volume_id          | String  | Disk ID.                                                                                                                                                                                 |
| bill_resource_id   | String  | Billing resource ID of the disk.                                                                                                                                                         |
| create_time        | String  | Time when the disk was created.                                                                                                                                                          |
| display_name       | String  | Disk name.                                                                                                                                                                               |
| resource_spec_code | String  | Specifications.                                                                                                                                                                          |

**Table 4-853** ProductInfo

| Parameter           | Type    | Description                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| product_id          | String  | Product ID.                                                                                                                                                                                                                                                                                                                                                                                           |
| flavor_id           | String  | Specifications ID.                                                                                                                                                                                                                                                                                                                                                                                    |
| type                | String  | Product type. <ul style="list-style-type: none"> <li>• <b>BASE</b>: basic product package. OS is the only commercial software product in the package. Only this type of package can be used for private images.</li> </ul>                                                                                                                                                                            |
| cpu                 | String  | CPU.                                                                                                                                                                                                                                                                                                                                                                                                  |
| memory              | String  | Memory.                                                                                                                                                                                                                                                                                                                                                                                               |
| descriptions        | String  | Product description.                                                                                                                                                                                                                                                                                                                                                                                  |
| charge_mode         | String  | Billing type of the package. 1 indicates yearly/monthly billing, and 0 indicates pay-per-use billing.                                                                                                                                                                                                                                                                                                 |
| architecture        | String  | Product architecture.                                                                                                                                                                                                                                                                                                                                                                                 |
| is_gpu              | Boolean | Whether the specifications are of the GPU type.                                                                                                                                                                                                                                                                                                                                                       |
| package_type        | String  | Package type. <ul style="list-style-type: none"> <li>• <b>ultimate</b>: ultimate edition</li> <li>• <b>enterprise</b>: enterprise edition</li> <li>• <b>general</b>: general office edition</li> <li>• <b>workstation</b>: cloud workstation edition</li> <li>• <b>dedicated</b>: dedicated edition</li> <li>• <b>solver</b>: solver edition</li> <li>• <b>agile</b>: agile office edition</li> </ul> |
| system_disk_type    | String  | System disk type.                                                                                                                                                                                                                                                                                                                                                                                     |
| system_disk_size    | String  | System disk size.                                                                                                                                                                                                                                                                                                                                                                                     |
| contain_data_disk   | Boolean | Whether data disks are included in the package billing. <b>off</b> indicates no.                                                                                                                                                                                                                                                                                                                      |
| resource_type       | String  | Resource type.                                                                                                                                                                                                                                                                                                                                                                                        |
| cloud_service_type  | String  | Cloud service type.                                                                                                                                                                                                                                                                                                                                                                                   |
| volume_product_type | String  | Disk type.                                                                                                                                                                                                                                                                                                                                                                                            |

| Parameter | Type   | Description                                                                                                         |
|-----------|--------|---------------------------------------------------------------------------------------------------------------------|
| status    | String | The status can be <b>normal</b> (by default, on sale), <b>sellout</b> (sold out), and <b>abandon</b> (unavailable). |

Table 4-854 Tag

| Parameter | Type   | Description                                                                                                                                                                                                                                                                       |
|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| key       | String | Specifies the tag key. This parameter cannot be left blank and can contain a maximum of 128 Unicode characters. The value can contain uppercase letters, lowercase letters, digits, hyphens (-), and underscores (_). The value cannot contain the following characters: =*<>, /. |
| value     | String | Value of a tag, which can contain a maximum of 43 Unicode characters. The value can contain uppercase letters, lowercase letters, digits, hyphens (-), and underscores (_). The value cannot contain the following characters: =*<>, /.                                           |

Table 4-855 HourPackageInfo

| Parameter                  | Type   | Description                                                                                                                                         |
|----------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| root_order_id              | String | Root order ID of the hourly-billed package.                                                                                                         |
| package_resource_id        | String | Resource ID of the hourly-billed package.                                                                                                           |
| package_instance_id        | String | Instance ID of the hourly-billed package.                                                                                                           |
| package_spec_code          | String | specCode of the hourly-billed package.                                                                                                              |
| combined_product_type_code | String | resourceTypeCode of the offering portfolio.                                                                                                         |
| use_up_policy              | String | Hourly-billed package exhaustion policy. <b>SHUTDOWN_OR_HIBERNATE</b> : automatic shutdown or hibernation; <b>PAY_PER_USE</b> : pay-per-use billing |



| Parameter        | Type    | Description                                  |
|------------------|---------|----------------------------------------------|
| package_duration | Integer | Total duration of the hourly-billed package. |
| use_duration     | Integer | Used duration of the hourly-billed package.  |

**Status code: 400****Table 4-856** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-857** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403**

**Table 4-858** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-859** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 409****Table 4-860** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-861** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Example Requests**

```
/v2/bcae3e673fd04716a3b9dacdf58ca336/desktop-pools/a130ab3a-72bf-4b71-baa9-af4987c8e338/desktops
```

**Example Responses****Status code: 200**

Response to the request for querying users and user groups authorized by the desktop pool.

```
{
 "pool_desktops": [{
 "desktop_id": "ffb9a973-da80-4f58-9f71-5c83c229b3f9",
 "computer_name": "desktop-mwaxmga",
 "os_host_name": "desktop-mwaxmga",
 "addresses": {
 "3596ca3f-0ea0-48ff-8010-3c87e72d9726": [{
 "osextipsmacmacAddr": "fa:16:3e:36:31:9a",
 "osextipstype": "fixed",
 "addr": "172.16.11.116",
 "version": "4",
 "OS-EXT-IPS-MAC:mac_addr": "fa:16:3e:36:31:9a",
 "OS-EXT-IPS:type": "fixed"
 }],
 "016842ec-3d5e-41bd-8ef6-6b34acbec67e": [{
 "osextipsmacmacAddr": "fa:16:3e:98:4a:0c",
 "osextipstype": "fixed",
 "addr": "172.26.204.142",
 "version": "4",
 "OS-EXT-IPS-MAC:mac_addr": "fa:16:3e:98:4a:0c",
 "OS-EXT-IPS:type": "fixed"
 }]
 }
 }],
 "ip_addresses": ["172.16.11.116", "172.26.204.142"],
 "ipv4": "172.16.11.116",
 "ipv6": "",
 "user_list": [],
 "user_group_list": [],
 "desktop_type": "POOLED",
 "metadata": {
 "image_name": "WKS_WIN1064_UserImage",
 "metering.resourcepeccode": "c7.large.2.win",
 "charging_mode": "0",
 }
}
```

```

"metering.image_id" : "cc3bbc0b-9441-461b-b80b-48c52f3aed08",
"metering.resourcetype" : "1",
"os_type" : "Windows",
"os_bit" : "64",
"bill_resource_id" : "ffb9a973-da80-4f58-9f71-5c83c229b3f9.workspace",
"desktop_os_version" : "Version2009(OS Build 19041.1288)"
},
"flavor" : {
 "id" : "c7.large.2",
 "links" : []
},
},
"status" : "ACTIVE",
"task_status" : "",
"in_maintenance_mode" : false,
"created" : "2025-05-22T09:48:55.864Z",
"login_status" : "REGISTERED",
"product_id" : "workspace.x86.ultimate.large2",
"root_volume" : {
 "type" : "SAS",
 "size" : 80,
 "device" : "/dev/sda",
 "id" : "f4fc32db36f111f0ade6fa163e5a5e29",
 "volume_id" : "c6367195-1231-49e4-bb89-c2201d4c1986",
 "bill_resource_id" : "c6367195-1231-49e4-bb89-c2201d4c1986",
 "create_time" : "2025-05-22T09:48:47.366Z",
 "display_name" : "desktop-mwaxmga-volume-0000",
 "resource_spec_code" : "workspace.volume.high"
},
"data_volumes" : [{
 "type" : "SAS",
 "size" : 10,
 "device" : "/dev/sdb",
 "id" : "f4fe25e536f111f0ade6fa163e5a5e29",
 "volume_id" : "14289779-6668-402a-9cfb-2218a4b95507",
 "bill_resource_id" : "14289779-6668-402a-9cfb-2218a4b95507",
 "create_time" : "2025-05-22T09:48:47.378Z",
 "display_name" : "desktop-mwaxmga-volume-0001",
 "resource_spec_code" : "workspace.volume.high"
}],
"availability_zone" : "cn-north-7c",
"site_type" : "CENTER",
"site_name" : "Huawei Cloud Central Site",
"product" : {
 "product_id" : "workspace.x86.ultimate.large2",
 "flavor_id" : "c7.large.2",
 "type" : "BASE",
 "cpu" : "2",
 "memory" : "4096",
 "descriptions" : "Ultimate | 2 vCPUs | 4 GB memory",
 "charge_mode" : "1",
 "architecture" : "x86",
 "is_gpu" : false,
 "package_type" : "ultimate",
 "system_disk_type" : "SAS",
 "system_disk_size" : "140",
 "contain_data_disk" : false,
 "resource_type" : "hws.resource.type.workspace.desktop",
 "cloud_service_type" : "hws.service.type.vdi",
 "volume_product_type" : "workspace",
 "status" : "normal"
},
"os_version" : "Version2009(OS Build 19041.1288)",
"sid" : "4f65a743-283c-4612-bce4-7d4c9a9c3bfe",
"tags" : [],
"is_support_internet" : true,
"internet_mode_list" : ["WORKSPACE_BANDWIDTH"],
"is_attaching_eip" : false,
"attach_state" : "UNATTACH",
"enterprise_project_id" : "0",

```

```

"subnet_id" : "c7f30df4-f3ac-4807-9599-18950b05455f",
"bill_resource_id" : "ffb9a973-da80-4f58-9f71-5c83c229b3f9",
"inconsistent_types" : []
}],
"total_count" : 1,
"on_demand_desktops_num" : 1,
"period_desktops_num" : 0
}

```

## Status Codes

| Status Code | Description                                                                                           |
|-------------|-------------------------------------------------------------------------------------------------------|
| 200         | Response to the request for querying users and user groups authorized by the desktop pool.            |
| 400         | The request cannot be understood by the server due to malformed syntax.                               |
| 401         | Authentication failed.                                                                                |
| 403         | No operation permissions.                                                                             |
| 404         | No resources found.                                                                                   |
| 409         | Operation conflict.                                                                                   |
| 500         | An internal service error occurred. For details about the error code, see the error code description. |

## Error Codes

See [Error Codes](#).

### 4.4.16 Querying the Script Execution Task List of a Desktop Pool

#### Function

Desktop pool script execution task list.

#### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

#### URI

GET /v2/{project\_id}/desktop-pools/script-execution-tasks/detail

**Table 4-862** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

**Table 4-863** Query Parameters

| Parameter          | Mandatory | Type             | Description                                                                                                                                                                            |
|--------------------|-----------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| desktop_pool_id    | No        | String           | Desktop pool ID.                                                                                                                                                                       |
| script_id          | No        | String           | Script ID.                                                                                                                                                                             |
| script_name        | No        | String           | Script name.                                                                                                                                                                           |
| status             | No        | String           | Execution status. The value can be <b>SUCCESS</b> (execution succeeded), <b>FAILED</b> (execution failed), <b>RUNNING</b> (being executed), or <b>WAITING</b> (waiting for execution). |
| task_type          | No        | String           | Type of the task to be queried. SCRIPT and COMMAND are supported.                                                                                                                      |
| offset             | No        | Integer          | Start position for pagination query. The value starts from 0.                                                                                                                          |
| limit              | No        | Integer          | Maximum number of desktops that can be returned in a pagination query. The value ranges from 0 to 100. The default value is <b>10</b> .                                                |
| execute_time_start | No        | String           | Start time of the query by execution time. If this parameter is specified, all task records after this time are returned. A time example is 2021-10-01T12:00:00Z.                      |
| execute_time_end   | No        | String           | End time of the query by execution time. If this parameter is specified, all task records before this time are returned. A time example is 2021-10-01T12:00:00Z.                       |
| task_id            | No        | Array of strings | Task ID.                                                                                                                                                                               |

## Request Parameters

**Table 4-864** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                         |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |

## Response Parameters

Status code: 200

**Table 4-865** Response body parameters

| Parameter              | Type                                        | Description                 |
|------------------------|---------------------------------------------|-----------------------------|
| script_execution_tasks | Array of <b>ScriptExecutionTask</b> objects | Script execution task list. |
| total_count            | Integer                                     | Total number.               |

**Table 4-866** ScriptExecutionTask

| Parameter         | Type                           | Description                                                                                                                                                                                                                              |
|-------------------|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id                | String                         | Task ID.                                                                                                                                                                                                                                 |
| desktop_pool_id   | String                         | Desktop pool ID.                                                                                                                                                                                                                         |
| desktop_pool_name | String                         | Desktop pool name.                                                                                                                                                                                                                       |
| scripts           | Array of <b>Script</b> objects | Script information list.                                                                                                                                                                                                                 |
| command_content   | String                         | Indicates the command to be executed.                                                                                                                                                                                                    |
| command_type      | String                         | Indicates the command line type. <ul style="list-style-type: none"> <li>• POWERSHELL: used by the Windows operating system.</li> <li>• BAT: used by the Windows operating system.</li> <li>• SHELL: used by the Linux system.</li> </ul> |

| Parameter   | Type    | Description                                                                                                                                                                                                                                                                             |
|-------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| start_time  | String  | Task start time in the "yyyy-MM-ddTHH:mm:ssZ" format.                                                                                                                                                                                                                                   |
| end_time    | String  | Task end time in the "yyyy-MM-ddTHH:mm:ssZ" format.                                                                                                                                                                                                                                     |
| status      | String  | Task status. The value can be: <ul style="list-style-type: none"> <li>● <b>FINISH</b>: The task has been completed.</li> <li>● <b>FAILED</b>: The task failed.</li> <li>● <b>RUNNING</b>: The task is being executed.</li> <li>● <b>INIT</b>: The task is being initialized.</li> </ul> |
| success_num | Integer | Number of successes.                                                                                                                                                                                                                                                                    |
| failed_num  | Integer | Number of failures.                                                                                                                                                                                                                                                                     |
| skip_num    | Integer | Number of skips.                                                                                                                                                                                                                                                                        |

**Table 4-867** Script

| Parameter | Type   | Description  |
|-----------|--------|--------------|
| id        | String | Script ID.   |
| name      | String | Script name. |

**Status code: 400****Table 4-868** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401**



**Table 4-869** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-870** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-871** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-872** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Example Requests**

```
/v2/0bec5db98280d2d02fd6c00c2de791ce/desktops-pools/script-execution-tasks/detail
```

**Example Responses****Status code: 200**

Normal.

```
{
 "script_execution_tasks" : [{
 "id" : "string",
 "desktop_pool_id" : "string",
 "desktop_pool_name" : "string",
 "scripts" : [{
 "id" : "string",
 "name" : "string"
 }],
 "command_content" : "string",
 "command_type" : "string",
 "start_time" : "string",
 "end_time" : "string",
 "status" : "string",
 "success_num" : 0,
 "failed_num" : 0,
 "skip_num" : 0
 }],
 "total_count" : 0
}
```

**Status Codes**

| Status Code | Description                                                             |
|-------------|-------------------------------------------------------------------------|
| 200         | Normal.                                                                 |
| 400         | The request cannot be understood by the server due to malformed syntax. |

| Status Code | Description                                                                                           |
|-------------|-------------------------------------------------------------------------------------------------------|
| 401         | Authentication failed.                                                                                |
| 403         | No operation permissions.                                                                             |
| 404         | No resources found.                                                                                   |
| 500         | An internal service error occurred. For details about the error code, see the error code description. |

## Error Codes

See [Error Codes](#).

### 4.4.17 Executing Desktop Pool Scripts in Batches

#### Function

Desktop pool scripts executed in batches.

#### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

#### URI

POST /v2/{project\_id}/desktop-pools/{pool\_id}/script-executions

**Table 4-873** Path Parameters

| Parameter  | Mandatory | Type   | Description                    |
|------------|-----------|--------|--------------------------------|
| project_id | Yes       | String | Project ID.                    |
| pool_id    | Yes       | String | Specifies the desktop pool ID. |

## Request Parameters

**Table 4-874** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                         |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |

**Table 4-875** Request body parameters

| Parameter           | Mandatory | Type             | Description                                                                                                                                                           |
|---------------------|-----------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| script_ids          | No        | Array of strings | IDs of the executed scripts.                                                                                                                                          |
| gray_count          | No        | Integer          | Number of desktops executed in the first batch. This parameter takes precedence over <b>gray_desktop_ids</b> .                                                        |
| gray_desktop_ids    | No        | Array of strings | IDs of the first batch of desktops. <b>gray_count</b> takes precedence over this parameter.                                                                           |
| gray_fail_threshold | No        | Integer          | Grayscale release failure threshold. When the number of grayscale release failures reaches the value of this parameter, the next batch of tasks will not be executed. |
| pre_start           | No        | String           | Step performed before script execution.                                                                                                                               |
| post_finish         | No        | String           | Step to be performed after script execution is complete. The value can be <b>stop</b> (shutdown) or <b>reboot</b> (restart).                                          |
| command_content     | No        | String           | Command to be executed. Either this parameter or script_ids must be set.                                                                                              |

| Parameter         | Mandatory | Type    | Description                                                                                                                                                                                                                                                                             |
|-------------------|-----------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| command_type      | No        | String  | Command line type. This parameter is mandatory when a command line is executed. <ul style="list-style-type: none"> <li>• POWERSHELL: used by the Windows operating system.</li> <li>• BAT: used by the Windows operating system.</li> <li>• SHELL: used by the Linux system.</li> </ul> |
| execution_timeout | No        | Integer | Timeout interval for executing the script, in minutes. The default value is 1.                                                                                                                                                                                                          |

## Response Parameters

**Status code: 200**

**Table 4-876** Response body parameters

| Parameter | Type   | Description |
|-----------|--------|-------------|
| task_id   | String | Task ID.    |

**Status code: 400**

**Table 4-877** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401**

**Table 4-878** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-879** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-880** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500**

**Table 4-881** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

## Example Requests

```
/v2/0bec5db98280d2d02fd6c00c2de791ce/desktops-pools/a130ab3a-72bf-4b71-baa9-af4987c8e338/script-executions
{
 "script_ids" : ["0006e69f-5970-4af5-a652-e111055e630b"],
 "gray_desktop_ids" : ["00298bb0-104a-4467-9b15-876c6fb7a99f"],
 "post_finish" : "reboot"
}
```

## Example Responses

**Status code: 200**

Normal.

```
{
 "task_id" : "00298bb0-104a-4467-9b15-876c6fb7a99f"
}
```

## Status Codes

| Status Code | Description                                                                                           |
|-------------|-------------------------------------------------------------------------------------------------------|
| 200         | Normal.                                                                                               |
| 400         | The request cannot be understood by the server due to malformed syntax.                               |
| 401         | Authentication failed.                                                                                |
| 403         | No operation permissions.                                                                             |
| 404         | No resources found.                                                                                   |
| 500         | An internal service error occurred. For details about the error code, see the error code description. |

## Error Codes

See [Error Codes](#).

## 4.4.18 Sending a Notification

### Function

The administrator sends a notification to a desktop.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

POST /v2/{project\_id}/desktop-pools/{pool\_id}/notifications

**Table 4-882** Path Parameters

| Parameter  | Mandatory | Type   | Description                    |
|------------|-----------|--------|--------------------------------|
| project_id | Yes       | String | Project ID.                    |
| pool_id    | Yes       | String | Specifies the desktop pool ID. |

### Request Parameters

**Table 4-883** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                         |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |

**Table 4-884** Request body parameters

| Parameter     | Mandatory | Type   | Description           |
|---------------|-----------|--------|-----------------------|
| notifications | Yes       | String | Notification content. |



## Response Parameters

**Status code: 200**

**Table 4-885** Response body parameters

| Parameter | Type   | Description                                       |
|-----------|--------|---------------------------------------------------|
| job_id    | String | ID of the task for sending messages to a desktop. |

**Status code: 400**

**Table 4-886** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401**

**Table 4-887** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403**

**Table 4-888** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-889** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 409****Table 4-890** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-891** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Example Requests**

```
{
 "notifications" : "Sending a message to a desktop"
}
```

**Example Responses****Status code: 200**

Response to the request for sending a message to a desktop pool.

```
{
 "job_id" : "00298bb0-104a-4467-9b15-876c6fb7a99f"
}
```

**Status Codes**

| Status Code | Description                                                                      |
|-------------|----------------------------------------------------------------------------------|
| 200         | Response to the request for sending a message to a desktop pool.                 |
| 400         | The request cannot be understood by the server due to malformed syntax.          |
| 401         | Authentication failed.                                                           |
| 403         | No operation permissions.                                                        |
| 404         | No resources found.                                                              |
| 409         | Operation conflict.                                                              |
| 500         | An internal service error occurred. For details, see the error code description. |

## Error Codes

See [Error Codes](#).

## 4.5 Desktop Name Policy

### 4.5.1 Policy for Obtaining Desktop Names

#### Function

Policy for obtaining desktop names, which is used to automatically generate desktop names.

#### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

#### URI

GET /v2/{project\_id}/desktop-name-policies

**Table 4-892** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

**Table 4-893** Query Parameters

| Parameter       | Mandatory | Type    | Description                                                                                                                                                                                   |
|-----------------|-----------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| is_contain_user | No        | Boolean | Specifies whether the desktop name policy contains the username. <ul style="list-style-type: none"> <li>• true: yes</li> <li>• false: no</li> </ul>                                           |
| policy_name     | No        | String  | Policy name. The value is a string of 1 to 30 characters, including digits, letters, and underscores (.). <i>It must start with a letter or underscore (.).</i> Fuzzy filtering is supported. |
| policy_id       | No        | String  | Specifies the policy ID.                                                                                                                                                                      |
| offset          | No        | Integer | Start position for pagination query. The value starts from 0.                                                                                                                                 |

| Parameter | Mandatory | Type    | Description                                                                                              |
|-----------|-----------|---------|----------------------------------------------------------------------------------------------------------|
| limit     | No        | Integer | This parameter is used for pagination query. The value ranges from 0 to 50, and the default value is 50. |

## Request Parameters

**Table 4-894** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                     |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling an IAM API. The value of X-Subject-Token in the response header is the user token. |

## Response Parameters

**Status code: 200**

**Table 4-895** Response body parameters

| Parameter                 | Type                                                   | Description                       |
|---------------------------|--------------------------------------------------------|-----------------------------------|
| desktop_name_policy_infos | Array of <a href="#">DesktopNamePolicyInfo</a> objects | Desktop name policy information.  |
| total_count               | Integer                                                | Total number of returned records. |

**Table 4-896** DesktopNamePolicyInfo

| Parameter    | Type    | Description                                  |
|--------------|---------|----------------------------------------------|
| policy_id    | String  | Policy ID.                                   |
| policy_name  | String  | Policy name.                                 |
| name_prefix  | String  | Policy prefix.                               |
| digit_number | Integer | Number of valid digits in the policy suffix. |
| start_number | Integer | Start number of the policy suffix.           |

| Parameter              | Type    | Description                                                                                                                                                                     |
|------------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| single_domain_user_inc | Integer | Indicates whether the user name increases in ascending order.<br>- The user name increases in ascending order.<br>- The value 0 indicates that the number of tenants increases. |
| is_default_policy      | Boolean | Indicates whether the policy is the default policy. The value true indicates the default policy.                                                                                |
| is_contain_user        | Boolean | Specifies whether the desktop name policy of the username is included. The value true indicates that the desktop name policy is included.                                       |

**Status code: 400****Table 4-897** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-898** Response body parameters

| Parameter    | Type   | Description                                 |
|--------------|--------|---------------------------------------------|
| error_code   | String | Error code, which is returned upon failure. |
| error_msg    | String | Error description.                          |
| error_detail | String | Error details.                              |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403**

**Table 4-899** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500**

**Table 4-900** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

## Example Requests

None

## Example Responses

**Status code: 200**

Response to the request for obtaining the desktop name policy.

```
{
 "desktop_name_policy_infos" : [{
 "policy_id" : "string",
 "policy_name" : "string",
 "name_prefix" : "string",
 "digit_number" : 0,
 "start_number" : 0,
 "single_domain_user_inc" : 0,
 "is_default_policy" : false,
 "is_contain_user" : false
 }],
 "total_count" : 0
}
```

## Status Codes

| Status Code | Description                                                             |
|-------------|-------------------------------------------------------------------------|
| 200         | Response to the request for obtaining the desktop name policy.          |
| 400         | The request cannot be understood by the server due to malformed syntax. |
| 401         | Authentication failed.                                                  |
| 403         | No operation permission.                                                |
| 500         | Internal Server Error                                                   |

## Error Codes

See [Error Codes](#).

## 4.5.2 Creating a Desktop Name Policy

### Function

Create a desktop name policy to automatically generate desktop names. A maximum of 50 desktop names are allowed.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

POST /v2/{project\_id}/desktop-name-policies



**Table 4-901** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

## Request Parameters

**Table 4-902** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                     |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling an IAM API. The value of X-Subject-Token in the response header is the user token. |

**Table 4-903** Request body parameters

| Parameter                    | Mandatory | Type    | Description                                                                                                                                                                     |
|------------------------------|-----------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| policy_name                  | Yes       | String  | Policy name. The value is a string of 1 to 30 characters, including digits, letters, and underscores (.). <i>It must start with a letter or underscore (.).</i>                 |
| name_prefix                  | Yes       | String  | Policy prefix.                                                                                                                                                                  |
| digit_number                 | Yes       | Integer | Number of valid digits in the policy suffix.                                                                                                                                    |
| start_number                 | Yes       | Integer | Start number of the policy suffix.                                                                                                                                              |
| single_domain_user_increment | Yes       | Integer | Indicates whether the user name increases in ascending order.<br>- The user name increases in ascending order.<br>- The value 0 indicates that the number of tenants increases. |
| is_default_policy            | No        | Boolean | Indicates whether the policy is the default policy. The value true indicates the default policy.                                                                                |

## Response Parameters

**Status code: 200**

**Table 4-904** Response body parameters

| Parameter | Type   | Description |
|-----------|--------|-------------|
| policy_id | String | Policy ID.  |

**Status code: 400**

**Table 4-905** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401**

**Table 4-906** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403**

**Table 4-907** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-908** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

## Example Requests

```
{
 "policy_name" : "MyPolicy",
 "name_prefix" : "abc$DomainUser$12",
 "digit_number" : 2,
 "start_number" : 1,
 "single_domain_user_inc" : 1,
 "is_default_policy" : false
}
```

## Example Responses

**Status code: 200**

Response to the request for creating a desktop name policy.

```
{
 "policy_id" : "string"
}
```

## Status Codes

| Status Code | Description                                                             |
|-------------|-------------------------------------------------------------------------|
| 200         | Response to the request for creating a desktop name policy.             |
| 400         | The request cannot be understood by the server due to malformed syntax. |
| 401         | Authentication failed.                                                  |
| 403         | No operation permission.                                                |
| 500         | Internal Server Error                                                   |

## Error Codes

See [Error Codes](#).

## 4.5.3 Updating the Desktop Name Policy

### Function

Update the desktop name policy to automatically generate desktop names.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

PUT /v2/{project\_id}/desktop-name-policies/{policy\_id}

**Table 4-909** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |
| policy_id  | Yes       | String | Policy ID.  |

## Request Parameters

**Table 4-910** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                     |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling an IAM API. The value of X-Subject-Token in the response header is the user token. |

**Table 4-911** Request body parameters

| Parameter                    | Mandatory | Type    | Description                                                                                                                                                                     |
|------------------------------|-----------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| policy_name                  | No        | String  | Policy name. The value is a string of 1 to 30 characters, including digits, letters, and underscores (.). <i>It must start with a letter or underscore (.).</i>                 |
| name_prefix                  | No        | String  | Policy prefix.                                                                                                                                                                  |
| digit_number                 | No        | Integer | Number of valid digits in the policy suffix.                                                                                                                                    |
| start_number                 | No        | Integer | Start number of the policy suffix.                                                                                                                                              |
| single_domain_user_increment | No        | Integer | Indicates whether the user name increases in ascending order.<br>- The user name increases in ascending order.<br>- The value 0 indicates that the number of tenants increases. |
| is_default_policy            | No        | Boolean | Indicates whether the policy is the default policy. The value true indicates the default policy.                                                                                |

## Response Parameters

**Status code: 204**

Normal response to the request for updating the desktop name policy.

**Status code: 400**

**Table 4-912** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-913** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-914** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-915** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Example Requests**

```
{
 "policy_name" : "MyPolicy",
 "name_prefix" : "abc$DomainUser$12",
 "digit_number" : 2,
 "start_number" : 1,
 "single_domain_user_inc" : 1,
 "is_default_policy" : false
}
```

**Example Responses**

None

**Status Codes**

| Status Code | Description                                                             |
|-------------|-------------------------------------------------------------------------|
| 204         | Normal response to the request for updating the desktop name policy.    |
| 400         | The request cannot be understood by the server due to malformed syntax. |
| 401         | Authentication failed.                                                  |
| 403         | No operation permission.                                                |
| 500         | Internal Server Error                                                   |

**Error Codes**

See [Error Codes](#).

## 4.5.4 Deleting Desktop Name Policies in Batches

### Function

This interface is used to delete desktop name policies in batches.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

POST /v2/{project\_id}/desktop-name-policies/batch-delete

**Table 4-916** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

### Request Parameters

**Table 4-917** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                     |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling an IAM API. The value of X-Subject-Token in the response header is the user token. |

**Table 4-918** Request body parameters

| Parameter  | Mandatory | Type             | Description                                                |
|------------|-----------|------------------|------------------------------------------------------------|
| policy_ids | No        | Array of strings | Policy ID array. A maximum of 50 policy IDs are supported. |

### Response Parameters

**Status code: 204**

The system responds properly when desktop name policies are deleted in batches.

**Status code: 400**



**Table 4-919** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-920** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-921** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-922** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Example Requests**

```
{
 "policy_ids" : ["xxxx3bc6-1512-4386-81fb-20604fe6xxxx"]
}
```

**Example Responses**

None

**Status Codes**

| Status Code | Description                                                                     |
|-------------|---------------------------------------------------------------------------------|
| 204         | The system responds properly when desktop name policies are deleted in batches. |
| 400         | The request cannot be understood by the server due to malformed syntax.         |
| 401         | Authentication failed.                                                          |
| 403         | No operation permission.                                                        |
| 500         | Internal server error.                                                          |

**Error Codes**

See [Error Codes](#).

**4.6 Desktop Tag**

## 4.6.1 Querying Desktop Tags

### Function

Queries the tag information of a specified desktop.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

GET /v2/{project\_id}/desktops/{desktop\_id}/tags

**Table 4-923** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |
| desktop_id | Yes       | String | Desktop ID. |

### Request Parameters

**Table 4-924** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                               |
|--------------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>Can be obtained by calling the IAM API for obtaining the user token (the value of X-Subject-Token in the response header). |
| Content-Type | No        | String | MIME type of the request body.                                                                                                            |

### Response Parameters

Status code: 200

**Table 4-925** Response body parameters

| Parameter | Type                                 | Description |
|-----------|--------------------------------------|-------------|
| tags      | Array of <a href="#">Tag</a> objects | Tag.        |

**Table 4-926** Tag

| Parameter | Type   | Description                                                                                                                                                                                                                                                                       |
|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| key       | String | Specifies the tag key. This parameter cannot be left blank and can contain a maximum of 128 Unicode characters. The value can contain uppercase letters, lowercase letters, digits, hyphens (-), and underscores (_). The value cannot contain the following characters: =*<>, /. |
| value     | String | Value of a tag, which can contain a maximum of 43 Unicode characters. The value can contain uppercase letters, lowercase letters, digits, hyphens (-), and underscores (_). The value cannot contain the following characters: =*<>, /.                                           |

**Status code: default****Table 4-927** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Example Requests**

```
/v2/{project_id}/desktops/{desktop_id}/tags
```

**Example Responses****Status code: 200**

Queries desktop tags.

```
{
 "tags": [{
 "key": "string",
 "value": ""
 }]
}
```

```
 }]
}
```

## Status Codes

| Status Code | Description           |
|-------------|-----------------------|
| 200         | Queries desktop tags. |
| default     | Abnormal response.    |

## Error Codes

See [Error Codes](#).

## 4.6.2 Creating a Desktop Tag

### Function

Creates tags for a desktop. A desktop can have a maximum of 10 tags. If a to-be-created tag has the same key as an existing tag, the tag will be created and overwrite the existing one.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

POST /v2/{project\_id}/desktops/{desktop\_id}/tags

**Table 4-928** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |
| desktop_id | Yes       | String | Desktop ID. |

## Request Parameters

**Table 4-929** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                               |
|--------------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>Can be obtained by calling the IAM API for obtaining the user token (the value of X-Subject-Token in the response header). |
| Content-Type | No        | String | MIME type of the request body.                                                                                                            |

**Table 4-930** Request body parameters

| Parameter | Mandatory | Type              | Description |
|-----------|-----------|-------------------|-------------|
| tag       | Yes       | <b>Tag</b> object | Tag.        |

**Table 4-931** Tag

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                                                                                                       |
|-----------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| key       | Yes       | String | Specifies the tag key. This parameter cannot be left blank and can contain a maximum of 128 Unicode characters. The value can contain uppercase letters, lowercase letters, digits, hyphens (-), and underscores (_). The value cannot contain the following characters: =*<>, /. |
| value     | No        | String | Value of a tag, which can contain a maximum of 43 Unicode characters. The value can contain uppercase letters, lowercase letters, digits, hyphens (-), and underscores (_). The value cannot contain the following characters: =*<>, /.                                           |

## Response Parameters

### Status code: 204

Response to the request for creating a desktop tag.

### Status code: 400

**Table 4-932** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

### Status code: 401

**Table 4-933** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

### Status code: 403

**Table 4-934** Response body parameters

| Parameter  | Type   | Description                                 |
|------------|--------|---------------------------------------------|
| error_code | String | Error code, which is returned upon failure. |
| error_msg  | String | Error description.                          |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-935** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-936** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Example Requests**

```
/v2/9c53a566cb3443ab910cf0daebca90c4/desktops/8e07d3e9-454e-4fc9-ba56-c631d05c4712/tags
```

```
{
 "tag" : {
```



```

 "key": "ENV",
 "value": "DEV"
 }
}

```

## Example Responses

None

## Status Codes

| Status Code | Description                                         |
|-------------|-----------------------------------------------------|
| 204         | Response to the request for creating a desktop tag. |
| 400         | Invalid parameter.                                  |
| 401         | Authentication failed.                              |
| 403         | You do not have required permissions.               |
| 404         | Resource not found.                                 |
| 500         | Internal error.                                     |

## Error Codes

See [Error Codes](#).

## 4.6.3 Deleting a Desktop Tag

### Function

Deletes a desktop tag. If the tag to be deleted does not exist, the deletion is considered successful.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

DELETE /v2/{project\_id}/desktops/{desktop\_id}/tags/{key}

**Table 4-937** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |
| desktop_id | Yes       | String | Desktop ID. |

| Parameter | Mandatory | Type   | Description |
|-----------|-----------|--------|-------------|
| key       | Yes       | String | Tag key.    |

## Request Parameters

**Table 4-938** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                               |
|--------------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>Can be obtained by calling the IAM API for obtaining the user token (the value of X-Subject-Token in the response header). |
| Content-Type | No        | String | MIME type of the request body.                                                                                                            |

## Response Parameters

### Status code: 204

Response to the request for deleting a desktop tag.

### Status code: 400

**Table 4-939** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

### Status code: 401

**Table 4-940** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-941** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-942** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-943** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Example Requests**

None

**Example Responses**

None

**Status Codes**

| Status Code | Description                                         |
|-------------|-----------------------------------------------------|
| 204         | Response to the request for deleting a desktop tag. |
| 400         | Invalid parameter.                                  |
| 401         | Authentication failed.                              |
| 403         | You do not have required permissions.               |
| 404         | Resource not found.                                 |
| 500         | Internal error.                                     |

**Error Codes**See [Error Codes](#).**4.6.4 Querying Project Tags****Function**

Queries all tags of a tenant.

## Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

## URI

GET /v2/{project\_id}/desktops/tags

**Table 4-944** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

**Table 4-945** Query Parameters

| Parameter | Mandatory | Type    | Description                                                                       |
|-----------|-----------|---------|-----------------------------------------------------------------------------------|
| offset    | No        | Integer | Where the pagination query starts. The value starts from <b>0</b> .               |
| limit     | No        | Integer | Pagination query. The value ranges from 0 to 1,000 and defaults to <b>1,000</b> . |
| key       | No        | String  | Queries a specified tag.                                                          |

## Request Parameters

**Table 4-946** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                               |
|--------------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>Can be obtained by calling the IAM API for obtaining the user token (the value of X-Subject-Token in the response header). |
| Content-Type | No        | String | MIME type of the request body.                                                                                                            |

## Response Parameters

**Status code: 200**

**Table 4-947** Response body parameters

| Parameter  | Type                         | Description           |
|------------|------------------------------|-----------------------|
| tags       | Array of <b>Tags</b> objects | Tag object.           |
| totalCount | Integer                      | Total number of tags. |

**Table 4-948** Tags

| Parameter | Type             | Description |
|-----------|------------------|-------------|
| key       | String           | Tag key.    |
| values    | Array of strings | Tag value.  |

**Status code: 400****Table 4-949** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-950** Response body parameters

| Parameter    | Type   | Description                                 |
|--------------|--------|---------------------------------------------|
| error_code   | String | Error code, which is returned upon failure. |
| error_msg    | String | Error description.                          |
| error_detail | String | Error details.                              |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-951** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-952** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500**

**Table 4-953** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

## Example Requests

```
/v2/{project_id}/desktops/tags
```

## Example Responses

**Status code: 200**

Normal.

```
{
 "tags": [{
 "key": "string",
 "values": ["string"]
 }]
}
```

## Status Codes

| Status Code | Description                           |
|-------------|---------------------------------------|
| 200         | Normal.                               |
| 400         | Invalid parameter.                    |
| 401         | Authentication failed.                |
| 403         | You do not have required permissions. |
| 404         | Resource not found.                   |
| 500         | Internal error.                       |

## Error Codes

See [Error Codes](#).



## 4.6.5 Adding or Deleting Tags in Batches

### Function

Adds or deletes tags in batches for a specified desktop. If a to-be-created tag has the same key as an existing tag, the tag will be created and overwrite the existing one. If the tag to be deleted does not exist, the deletion is considered successful.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

POST /v2/{project\_id}/desktops/{desktop\_id}/tags/action

**Table 4-954** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |
| desktop_id | Yes       | String | Desktop ID. |

### Request Parameters

**Table 4-955** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                               |
|--------------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>Can be obtained by calling the IAM API for obtaining the user token (the value of X-Subject-Token in the response header). |
| Content-Type | No        | String | MIME type of the request body.                                                                                                            |

**Table 4-956** Request body parameters

| Parameter | Mandatory | Type                        | Description                                       |
|-----------|-----------|-----------------------------|---------------------------------------------------|
| action    | No        | String                      | Operation string <b>create</b> or <b>delete</b> . |
| tags      | No        | Array of <b>Tag</b> objects | Tag object.                                       |

| Parameter | Mandatory | Type                        | Description             |
|-----------|-----------|-----------------------------|-------------------------|
| sys_tags  | No        | Array of <b>Tag</b> objects | Tag object (discarded). |

**Table 4-957** Tag

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                                                                                                       |
|-----------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| key       | Yes       | String | Specifies the tag key. This parameter cannot be left blank and can contain a maximum of 128 Unicode characters. The value can contain uppercase letters, lowercase letters, digits, hyphens (-), and underscores (_). The value cannot contain the following characters: =*<>, /. |
| value     | No        | String | Value of a tag, which can contain a maximum of 43 Unicode characters. The value can contain uppercase letters, lowercase letters, digits, hyphens (-), and underscores (_). The value cannot contain the following characters: =*<>, /.                                           |

## Response Parameters

**Status code: 204**

Normal.

**Status code: 400**

**Table 4-958** Response body parameters

| Parameter    | Type   | Description                                 |
|--------------|--------|---------------------------------------------|
| error_code   | String | Error code, which is returned upon failure. |
| error_msg    | String | Error description.                          |
| error_detail | String | Error details.                              |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-959** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-960** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404**

**Table 4-961** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-962** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Example Requests**

```
{
 "action": "create",
 "tags": [{
 "key": "key1",
 "value": "value1"
 }, {
 "key": "key2",
 "value": "value3"
 }]
}
```

**Example Responses**

None

## Status Codes

| Status Code | Description                           |
|-------------|---------------------------------------|
| 204         | Normal.                               |
| 400         | Invalid parameter.                    |
| 401         | Authentication failed.                |
| 403         | You do not have required permissions. |
| 404         | Resource not found.                   |
| 500         | Internal error.                       |

## Error Codes

See [Error Codes](#).

## 4.6.6 Filtering Out Desktops by Tag

### Function

Filters out desktops by tag.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

POST /v2/{project\_id}/desktops/resource\_instances/action

**Table 4-963** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

## Request Parameters

**Table 4-964** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                               |
|--------------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>Can be obtained by calling the IAM API for obtaining the user token (the value of X-Subject-Token in the response header). |
| Content-Type | No        | String | MIME type of the request body.                                                                                                            |

**Table 4-965** Request body parameters

| Parameter       | Mandatory | Type                          | Description                                                                                                                                                               |
|-----------------|-----------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| offset          | No        | String                        | The default value is <b>0</b> .                                                                                                                                           |
| limit           | No        | String                        | The default value is <b>1,000</b> .                                                                                                                                       |
| action          | Yes       | String                        | The value <b>filter</b> indicates pagination query. The value <b>count</b> indicates that the total number of query results meeting the search criteria will be returned. |
| without_any_tag | No        | Boolean                       | Any tag is included. If this parameter is set to <b>true</b> , all resources without tags are queried.                                                                    |
| matches         | No        | Array of <b>Match</b> objects | Match object.                                                                                                                                                             |
| tags            | No        | Array of <b>Tags</b> objects  | Tag object included. The requirement is not met as long as one tag object is not included. One key corresponds to multiple values.                                        |
| tags_any        | No        | Array of <b>Tags</b> objects  | Any tag is included. If none of the tags is included, this requirement is not met. One key corresponds to multiple values.                                                |

| Parameter    | Mandatory | Type                         | Description                                                                                                                 |
|--------------|-----------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| not_tags     | No        | Array of <b>Tags</b> objects | Tags are not included. The requirement is met as long as one tag is not included. One key corresponds to multiple values.   |
| not_tags_any | No        | Array of <b>Tags</b> objects | Any tag is not included. The requirement is not met as long as one tag is included. One key corresponds to multiple values. |

Table 4-966 Match

| Parameter | Mandatory | Type   | Description                                                                                                |
|-----------|-----------|--------|------------------------------------------------------------------------------------------------------------|
| key       | Yes       | String | Field to be matched during the search.                                                                     |
| value     | Yes       | String | Value to be matched during the search. If <b>key</b> is set to <b>resource_name</b> , fuzzy match is used. |

Table 4-967 Tags

| Parameter | Mandatory | Type             | Description |
|-----------|-----------|------------------|-------------|
| key       | No        | String           | Tag key.    |
| values    | No        | Array of strings | Tag value.  |

## Response Parameters

Status code: 200

Table 4-968 Response body parameters

| Parameter | Type                                | Description                                                                     |
|-----------|-------------------------------------|---------------------------------------------------------------------------------|
| offset    | Integer                             | Offset of the specified information list query. The default value is <b>0</b> . |
| resources | Array of <b>TagResource</b> objects | Resource object.                                                                |

| Parameter   | Type    | Description |
|-------------|---------|-------------|
| total_count | Integer | Quantity.   |

**Table 4-969** TagResource

| Parameter       | Type                                 | Description          |
|-----------------|--------------------------------------|----------------------|
| resource_detail | String                               | Desktop information. |
| resource_id     | String                               | Desktop ID.          |
| resource_name   | String                               | Desktop name.        |
| tags            | Array of <a href="#">Tag</a> objects | Tag object.          |

**Table 4-970** Tag

| Parameter | Type   | Description                                                                                                                                                                                                                                                                       |
|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| key       | String | Specifies the tag key. This parameter cannot be left blank and can contain a maximum of 128 Unicode characters. The value can contain uppercase letters, lowercase letters, digits, hyphens (-), and underscores (_). The value cannot contain the following characters: =*<>, /. |
| value     | String | Value of a tag, which can contain a maximum of 43 Unicode characters. The value can contain uppercase letters, lowercase letters, digits, hyphens (-), and underscores (_). The value cannot contain the following characters: =*<>, /.                                           |

**Status code: 400****Table 4-971** Response body parameters

| Parameter  | Type   | Description                                 |
|------------|--------|---------------------------------------------|
| error_code | String | Error code, which is returned upon failure. |
| error_msg  | String | Error description.                          |



| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-972** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-973** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404**

**Table 4-974** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-975** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

## Example Requests

```
/v2/{project_id}/desktops/resource_instances/action
```

```
{
 "offset" : "0",
 "limit" : "10",
 "action" : "filter",
 "without_any_tag" : false,
 "tags" : [{
 "key" : "env_type",
 "values" : ["PerfTest"]
 }]
}
```

## Example Responses

**Status code: 200**

Normal.

```
{
 "offset" : 0,
```

```

"resources": [{
 "resource_id": "4dcadc5a-c2e6-458f-913e-df2aa7e93a97",
 "resource_name": "TEST",
 "tags": [{
 "key": "env_type",
 "value": "PerfTest"
 }]
}],
"total_count": 1
}

```

## Status Codes

| Status Code | Description                           |
|-------------|---------------------------------------|
| 200         | Normal.                               |
| 400         | Invalid parameter.                    |
| 401         | Authentication failed.                |
| 403         | You do not have required permissions. |
| 404         | Resource not found.                   |
| 500         | Internal error.                       |

## Error Codes

See [Error Codes](#).

## 4.6.7 Adding Multiple Desktop Tags in Batches

### Function

Tags can be added to multiple desktops in batches. If the tags to be created already exist (with the same key), the tags will be overwritten by default. The operation can be performed on a maximum of 100 desktops, and a maximum of 20 tags are allowed for each desktop.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

POST /v2/{project\_id}/desktops/batch-tags

**Table 4-976** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

## Request Parameters

**Table 4-977** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                               |
|--------------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>Can be obtained by calling the IAM API for obtaining the user token (the value of X-Subject-Token in the response header). |
| Content-Type | No        | String | MIME type of the request body.                                                                                                            |

**Table 4-978** Request body parameters

| Parameter | Mandatory | Type                                             | Description                                                                                       |
|-----------|-----------|--------------------------------------------------|---------------------------------------------------------------------------------------------------|
| desktops  | Yes       | Array of <a href="#">DesktopTagsInfo</a> objects | List of desktops (containing tags). Invalid desktop IDs are filtered out during batch operations. |

**Table 4-979** DesktopTagsInfo

| Parameter  | Mandatory | Type                                 | Description                       |
|------------|-----------|--------------------------------------|-----------------------------------|
| desktop_id | Yes       | String                               | Desktop ID.                       |
| tags       | Yes       | Array of <a href="#">Tag</a> objects | List of desktops containing tags. |

**Table 4-980** Tag

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                                                                                                       |
|-----------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| key       | Yes       | String | Specifies the tag key. This parameter cannot be left blank and can contain a maximum of 128 Unicode characters. The value can contain uppercase letters, lowercase letters, digits, hyphens (-), and underscores (_). The value cannot contain the following characters: =*<>, /. |
| value     | No        | String | Value of a tag, which can contain a maximum of 43 Unicode characters. The value can contain uppercase letters, lowercase letters, digits, hyphens (-), and underscores (_). The value cannot contain the following characters: =*<>, /.                                           |

## Response Parameters

**Status code: 204**

Normal.

**Status code: 400**

**Table 4-981** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401**

**Table 4-982** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-983** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-984** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-985** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Example Requests**

```
{
 "desktops": [{
 "desktop_id": "string",
 "tags": [{
 "key": "string",
 "value": ""
 }]
 }]
}
```

**Example Responses**

None

**Status Codes**

| Status Code | Description                           |
|-------------|---------------------------------------|
| 204         | Normal.                               |
| 400         | Invalid parameter.                    |
| 401         | Authentication failed.                |
| 403         | You do not have required permissions. |
| 404         | Resource not found.                   |
| 500         | Internal error.                       |

**Error Codes**

See [Error Codes](#).

## 4.6.8 Deleting Multiple Desktop Tags in Batches

### Function

Tags can be deleted from multiple desktops in batches. If the tags to be deleted do not exist, the deletion is considered successful by default. The operation can be performed on a maximum of 100 desktops, and a maximum of 20 tags are allowed for each desktop.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

DELETE /v2/{project\_id}/desktops/batch-tags

**Table 4-986** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

### Request Parameters

**Table 4-987** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                               |
|--------------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>Can be obtained by calling the IAM API for obtaining the user token (the value of X-Subject-Token in the response header). |
| Content-Type | No        | String | MIME type of the request body.                                                                                                            |

**Table 4-988** Request body parameters

| Parameter | Mandatory | Type                                            | Description                                                                                       |
|-----------|-----------|-------------------------------------------------|---------------------------------------------------------------------------------------------------|
| desktops  | Yes       | Array of <a href="#">DesktopTagInfo</a> objects | List of desktops (containing tags). Invalid desktop IDs are filtered out during batch operations. |



**Table 4-989** DesktopTagsInfo

| Parameter  | Mandatory | Type                        | Description                       |
|------------|-----------|-----------------------------|-----------------------------------|
| desktop_id | Yes       | String                      | Desktop ID.                       |
| tags       | Yes       | Array of <b>Tag</b> objects | List of desktops containing tags. |

**Table 4-990** Tag

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                                                                                                       |
|-----------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| key       | Yes       | String | Specifies the tag key. This parameter cannot be left blank and can contain a maximum of 128 Unicode characters. The value can contain uppercase letters, lowercase letters, digits, hyphens (-), and underscores (_). The value cannot contain the following characters: =*<>, /. |
| value     | No        | String | Value of a tag, which can contain a maximum of 43 Unicode characters. The value can contain uppercase letters, lowercase letters, digits, hyphens (-), and underscores (_). The value cannot contain the following characters: =*<>, /.                                           |

## Response Parameters

**Status code: 204**

Normal.

**Status code: 400**

**Table 4-991** Response body parameters

| Parameter  | Type   | Description                                 |
|------------|--------|---------------------------------------------|
| error_code | String | Error code, which is returned upon failure. |
| error_msg  | String | Error description.                          |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-992** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-993** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404**

**Table 4-994** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-995** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Example Requests**

```
{
 "desktops": [{
 "desktop_id": "string",
 "tags": [{
 "key": "string",
 "value": ""
 }]
 }]
}
```

**Example Responses**

None

## Status Codes

| Status Code | Description                           |
|-------------|---------------------------------------|
| 204         | Normal.                               |
| 400         | Invalid parameter.                    |
| 401         | Authentication failed.                |
| 403         | You do not have required permissions. |
| 404         | Resource not found.                   |
| 500         | Internal error.                       |

## Error Codes

See [Error Codes](#).

# 4.7 Collaborative Desktop

## 4.7.1 Purchasing Auxiliary Resources for Desktops

### Function

Purchases depended resources of an existing desktop.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

POST /v2/{project\_id}/desktop/sub-resources

**Table 4-996** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

## Request Parameters

**Table 4-997** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                 |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API that is used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | No        | String | MIME type of the request body.                                                                                                                                              |

**Table 4-998** Request body parameters

| Parameter        | Mandatory | Type             | Description                              |
|------------------|-----------|------------------|------------------------------------------|
| sub_resource_sku | Yes       | String           | Desktop collaboration resource SKU code. |
| order_id         | No        | String           | Order ID.                                |
| desktop_ids      | Yes       | Array of strings | Desktop IDs.                             |

## Response Parameters

**Status code: 200**

**Table 4-999** Response body parameters

| Parameter | Type   | Description                            |
|-----------|--------|----------------------------------------|
| job_id    | String | ID of the cloud desktop creation task. |

**Status code: 400**

**Table 4-1000** Response body parameters

| Parameter  | Type   | Description                                 |
|------------|--------|---------------------------------------------|
| error_code | String | Error code, which is returned upon failure. |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-1001** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-1002** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404**

**Table 4-1003** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-1004** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

## Example Requests

```
{
 "sub_resource_sku" : "string",
 "order_id" : "string",
 "desktop_ids" : ["string"]
}
```

## Example Responses

**Status code: 200**

Collaborative response to desktop purchase.

```
{
 "job_id" : "3979904c-7beb-4f34-835f-2fa989a5550a"
}
```

## Status Codes

| Status Code | Description                                                                                           |
|-------------|-------------------------------------------------------------------------------------------------------|
| 200         | Collaborative response to desktop purchase.                                                           |
| 400         | The request cannot be understood by the server due to malformed syntax.                               |
| 401         | Authentication failed.                                                                                |
| 403         | No operation permission.                                                                              |
| 404         | No resources found.                                                                                   |
| 500         | An internal service error occurred. For details about the error code, see the error code description. |

## Error Codes

See [Error Codes](#).

## 4.7.2 Deleting Auxiliary Resources from the Desktop

### Function

Deletes depended resources of a desktop.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

POST /v2/{project\_id}/desktop/delete-sub-resources

**Table 4-1005** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |



## Request Parameters

**Table 4-1006** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                 |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API that is used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | No        | String | MIME type of the request body.                                                                                                                                              |

**Table 4-1007** Request body parameters

| Parameter         | Mandatory | Type             | Description                                                                                             |
|-------------------|-----------|------------------|---------------------------------------------------------------------------------------------------------|
| desktop_ids       | Yes       | Array of strings | Desktop IDs.                                                                                            |
| sub_resource_type | Yes       | String           | Type of the depended resource to be deleted.<br><b>DESKTOP_SHARER</b> : desktop collaboration resources |
| order_id          | No        | String           | Order ID.                                                                                               |

## Response Parameters

**Status code: 200**

**Table 4-1008** Response body parameters

| Parameter | Type   | Description                            |
|-----------|--------|----------------------------------------|
| job_id    | String | ID of the cloud desktop creation task. |

**Status code: 400**

**Table 4-1009** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-1010** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-1011** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-1012** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-1013** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code, which is returned upon failure.                                                                                     |
| error_msg                     | String | Error description.                                                                                                              |
| error_detail                  | String | Error details.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Example Requests**

```
{
 "desktop_ids" : ["string"],
 "sub_resource_type" : "string",
 "order_id" : "string"
}
```

**Example Responses****Status code: 200**

Desktop deletion collaboration response.

```
{
 "job_id" : "3979904c-7beb-4f34-835f-2fa989a5550a"
}
```

## Status Codes

| Status Code | Description                                                                                           |
|-------------|-------------------------------------------------------------------------------------------------------|
| 200         | Desktop deletion collaboration response.                                                              |
| 400         | The request cannot be understood by the server due to malformed syntax.                               |
| 401         | Authentication failed.                                                                                |
| 403         | No operation permission.                                                                              |
| 404         | No resources found.                                                                                   |
| 500         | An internal service error occurred. For details about the error code, see the error code description. |

## Error Codes

See [Error Codes](#).

## 4.8 User

### 4.8.1 Querying Users

#### Function

Queries desktop users.

#### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

#### URI

GET /v2/{project\_id}/users

**Table 4-1014** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

**Table 4-1015** Query Parameters

| Parameter                | Mandatory | Type    | Description                                                                                                                                                                                                           |
|--------------------------|-----------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| user_name                | No        | String  | Desktop username. The value contains 1 to 20 characters and cannot contain special characters or start with a digit.                                                                                                  |
| limit                    | No        | String  | Limits the quantity of returned users in pagination query. If this parameter is not specified, all users who meet the query criteria are returned.                                                                    |
| offset                   | No        | String  | Start number of records in pagination query.                                                                                                                                                                          |
| description              | No        | String  | User description query (fuzzy match).                                                                                                                                                                                 |
| active_type              | No        | String  | Activation type, which defaults to activation by users. <ul style="list-style-type: none"> <li>• <b>USER_ACTIVATE</b>: activated by users</li> <li>• <b>ADMIN_ACTIVATE</b>: activated by the administrator</li> </ul> |
| group_name               | No        | String  | Desktop user group name (exact match).                                                                                                                                                                                |
| share_space_subscription | No        | Boolean | Whether the user has subscribed to collaboration. The options are <b>true</b> (yes) and <b>false</b> (no).                                                                                                            |
| share_space_desktops     | No        | Boolean | Whether the user has been bound to a collaborative desktop. The options are <b>true</b> (yes) and <b>false</b> (no).                                                                                                  |
| is_query_total_desktops  | No        | Boolean | Whether to query the number of desktops bound to a user. The options are <b>true</b> (default) and <b>false</b> .                                                                                                     |
| enterprise_project_id    | No        | String  | Enterprise project ID.                                                                                                                                                                                                |

## Request Parameters

**Table 4-1016** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                         |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | Yes       | String | MIME type of the request body, for example, <b>application/json</b> .                                                                                               |

## Response Parameters

**Status code: 200**

**Table 4-1017** Response body parameters

| Parameter   | Type                         | Description            |
|-------------|------------------------------|------------------------|
| total_count | Integer                      | Total number of users. |
| users       | Array of <b>User</b> objects | User list.             |

**Table 4-1018** User

| Parameter      | Type    | Description                                     |
|----------------|---------|-------------------------------------------------|
| id             | String  | User ID.                                        |
| sid            | String  | User ID.                                        |
| user_name      | String  | Desktop username.                               |
| user_email     | String  | User mailbox.                                   |
| total_desktops | Integer | Total number of cloud desktops bound to a user. |
| user_phone     | String  | Mobile number.                                  |

| Parameter                  | Type             | Description                                                                                                                                                                                                           |
|----------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| active_type                | String           | Activation type, which defaults to activation by users. <ul style="list-style-type: none"> <li>• <b>USER_ACTIVATE</b>: activated by users</li> <li>• <b>ADMIN_ACTIVATE</b>: activated by the administrator</li> </ul> |
| is_pre_user                | Boolean          | Whether the user is pre-created.                                                                                                                                                                                      |
| account_expires            | String           | Account expiration time. <b>0</b> indicates that the account never expires.                                                                                                                                           |
| password_never_expired     | Boolean          | Whether the password never expires. The options are <b>true</b> (never expires) and <b>false</b> (will expire).                                                                                                       |
| account_expired            | Boolean          | Whether the account has expired. The options are <b>true</b> (yes) and <b>false</b> (no).                                                                                                                             |
| enable_change_password     | Boolean          | Whether the password can be changed. The options are <b>true</b> (yes) and <b>false</b> (no).                                                                                                                         |
| next_login_change_password | Boolean          | Whether the password needs to be reset upon the next login. The options are <b>true</b> (yes) and <b>false</b> (no).                                                                                                  |
| description                | String           | User description.                                                                                                                                                                                                     |
| locked                     | Boolean          | Whether the account is locked. The options are <b>true</b> (yes) and <b>false</b> (no).                                                                                                                               |
| disabled                   | Boolean          | Whether the account is disabled. The options are <b>true</b> (yes) and <b>false</b> (no).                                                                                                                             |
| share_space_subscription   | Boolean          | Whether the user has subscribed to collaboration. The options are <b>true</b> (yes) and <b>false</b> (no).                                                                                                            |
| share_space_desktops       | Integer          | Number of collaborative desktops bound to the user.                                                                                                                                                                   |
| group_names                | Array of strings | Groups that users join.                                                                                                                                                                                               |
| enterprise_project_id      | String           | Enterprise project ID.                                                                                                                                                                                                |
| user_info_map              | String           | User information mapping, including the service level, operation mode and type.                                                                                                                                       |

**Status code: 400**

**Table 4-1019** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-1020** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-1021** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404**



**Table 4-1022** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 405****Table 4-1023** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-1024** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 503**

**Table 4-1025** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

## Example Requests

```
GET /v2/0bec5db98280d2d02fd6c00c2de791ce/users?limit=10
```

## Example Responses

**Status code: 200**

Response to the request for querying Workspace users.

```
{
 "total_count": 2,
 "users": [{
 "id": "8a2c3f9579d240820179d51e6caf0001",
 "user_name": "api-test",
 "user_email": "test@huawei.com",
 "total_desktops": 0,
 "account_expires": "0",
 "enable_change_password": true,
 "next_login_change_password": true,
 "locked": false,
 "disabled": false
 }, {
 "id": "8a2c3f9579d240820179d51e6caf0002",
 "user_name": "api-test2",
 "user_email": "test@huawei.com",
 "total_desktops": 0,
 "account_expires": "0",
 "enable_change_password": true,
 "next_login_change_password": true,
 "locked": false,
 "disabled": false
 }
]
}
```

## Status Codes

| Status Code | Description                                                             |
|-------------|-------------------------------------------------------------------------|
| 200         | Response to the request for querying Workspace users.                   |
| 400         | The request cannot be understood by the server due to malformed syntax. |
| 401         | Authentication failed.                                                  |

| Status Code | Description                                                                      |
|-------------|----------------------------------------------------------------------------------|
| 403         | No operation permissions.                                                        |
| 404         | No resources found.                                                              |
| 405         | The method specified in the request is not allowed.                              |
| 500         | An internal service error occurred. For details, see the error code description. |
| 503         | Service unavailable.                                                             |

## Error Codes

See [Error Codes](#).

## 4.8.2 Creating a User

### Function

Creates a Workspace user.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

POST /v2/{project\_id}/users

**Table 4-1026** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

## Request Parameters

**Table 4-1027** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                         |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | Yes       | String | MIME type of the request body, for example, <b>application/json</b> .                                                                                               |

**Table 4-1028** Request body parameters

| Parameter              | Mandatory | Type    | Description                                                                                                                                                                                                       |
|------------------------|-----------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| user_name              | Yes       | String  | Username.                                                                                                                                                                                                         |
| user_email             | No        | String  | User mailbox.                                                                                                                                                                                                     |
| account_expires        | No        | String  | Account expiration time. <b>0</b> indicates that the account never expires. The time format is yyyy-MM-ddTHH:mm:ssZ or yyyy-MM-ddTHH:mm:ss.SSSZ.                                                                  |
| active_type            | No        | String  | Activation type, which defaults to activation by users. <ul style="list-style-type: none"> <li><b>USER_ACTIVATE</b>: activated by users</li> <li><b>ADMIN_ACTIVATE</b>: activated by the administrator</li> </ul> |
| user_phone             | No        | String  | Mobile number of the user.                                                                                                                                                                                        |
| password               | No        | String  | Initial user password, which is required for the administrator activation mode.                                                                                                                                   |
| enable_change_password | No        | Boolean | Whether a user can change the password. The default value is <b>true</b> . This field will be invalid later on and will be set to <b>true</b> during creation.                                                    |

| Parameter                  | Mandatory | Type             | Description                                                                                                                                                                      |
|----------------------------|-----------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| next_login_change_password | No        | Boolean          | Whether the password must be changed upon the next login. The default value is <b>true</b> . This field will be invalid later on and will be set to <b>true</b> during creation. |
| group_ids                  | No        | Array of strings | Dedicated IDs of the user group.                                                                                                                                                 |
| description                | No        | String           | User description, which contains 0 to 255 characters.                                                                                                                            |
| alias_name                 | No        | String           | Alias.                                                                                                                                                                           |
| enterprise_project_id      | No        | String           | Enterprise project ID.                                                                                                                                                           |
| user_info_map              | No        | String           | User information mapping, including the service level, operation mode and type.                                                                                                  |

## Response Parameters

**Status code: 201**

**Table 4-1029** Response body parameters

| Parameter | Type   | Description |
|-----------|--------|-------------|
| id        | String | User ID.    |

**Status code: 400**

**Table 4-1030** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401**

**Table 4-1031** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-1032** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-1033** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 405**

**Table 4-1034** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-1035** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 503****Table 4-1036** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Example Requests**

```
POST /v2/0bec5db98280d2d02fd6c00c2de791ce/users
```

```
{
 "user_name" : "api-test",
 "user_email" : "test@huawei.com"
}
```

## Example Responses

### Status code: 201

Response to the request for creating a Workspace user.

```
{
 "id" : "8a2c3f9579d240820179d51e6caf0001"
}
```

## Status Codes

| Status Code | Description                                                                      |
|-------------|----------------------------------------------------------------------------------|
| 201         | Response to the request for creating a Workspace user.                           |
| 400         | The request cannot be understood by the server due to malformed syntax.          |
| 401         | Authentication failed.                                                           |
| 403         | No operation permissions.                                                        |
| 404         | No resources found.                                                              |
| 405         | The method specified in the request is not allowed.                              |
| 500         | An internal service error occurred. For details, see the error code description. |
| 503         | Service unavailable.                                                             |

## Error Codes

See [Error Codes](#).

### 4.8.3 Deleting a Specified User

#### Function

Deletes a specified desktop user.

#### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

#### URI

DELETE /v2/{project\_id}/users/{user\_id}



**Table 4-1037** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |
| user_id    | Yes       | String | User ID.    |

## Request Parameters

**Table 4-1038** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                         |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | Yes       | String | MIME type of the request body, for example, <b>application/json</b> .                                                                                               |

## Response Parameters

**Status code: 204**

Normal.

**Status code: 400**

**Table 4-1039** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401**

**Table 4-1040** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-1041** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-1042** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 405**

**Table 4-1043** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-1044** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 503****Table 4-1045** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Example Requests**

```
DELETE /v2/0bec5db98280d2d02fd6c00c2de791ce/users/8a2c3f9579d240820179d51e6caf0001
```

**Example Responses**

None

## Status Codes

| Status Code | Description                                                                      |
|-------------|----------------------------------------------------------------------------------|
| 204         | Normal.                                                                          |
| 400         | The request cannot be understood by the server due to malformed syntax.          |
| 401         | Authentication failed.                                                           |
| 403         | No operation permissions.                                                        |
| 404         | No resources found.                                                              |
| 405         | The method specified in the request is not allowed.                              |
| 500         | An internal service error occurred. For details, see the error code description. |
| 503         | Service unavailable.                                                             |

## Error Codes

See [Error Codes](#).

### 4.8.4 Querying User Details

#### Function

Queries details about a specified desktop user.

#### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

#### URI

GET /v2/{project\_id}/users/{user\_id}

**Table 4-1046** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |
| user_id    | Yes       | String | User ID.    |

## Request Parameters

**Table 4-1047** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                         |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | Yes       | String | MIME type of the request body, for example, <b>application/json</b> .                                                                                               |

## Response Parameters

Status code: 200

**Table 4-1048** Response body parameters

| Parameter   | Type                              | Description   |
|-------------|-----------------------------------|---------------|
| user_detail | <a href="#">UserDetail</a> object | User details. |

**Table 4-1049** UserDetail

| Parameter        | Type   | Description                                                                                                                                                                                                       |
|------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| description      | String | User description.                                                                                                                                                                                                 |
| id               | String | User ID.                                                                                                                                                                                                          |
| user_name        | String | Desktop username.                                                                                                                                                                                                 |
| user_email       | String | User mailbox.                                                                                                                                                                                                     |
| user_phone       | String | Mobile number.                                                                                                                                                                                                    |
| active_type      | String | Activation type, which defaults to activation by users. <ul style="list-style-type: none"> <li><b>USER_ACTIVATE</b>: activated by users</li> <li><b>ADMIN_ACTIVATE</b>: activated by the administrator</li> </ul> |
| object_sid       | String | User SID.                                                                                                                                                                                                         |
| sam_account_name | String | Login name (earlier Windows versions).                                                                                                                                                                            |

| Parameter                  | Type             | Description                                                                                                          |
|----------------------------|------------------|----------------------------------------------------------------------------------------------------------------------|
| user_principal_name        | String           | Username used for login.                                                                                             |
| full_name                  | String           | Full name.                                                                                                           |
| distinguished_name         | String           | Unique location of a user in the domain tree.                                                                        |
| account_type               | Integer          | Account type ( <b>0</b> : user; <b>1</b> : user group).                                                              |
| when_created               | String           | UTC time, in millisecond. The format is yyyy-MM-ddTHH:mm:ss.SSSZ.                                                    |
| account_expires            | Long             | UTC time (in millisecond) corresponding to the last day of the account validity period.                              |
| is_pre_user                | Boolean          | Whether the user is pre-created. The options are <b>true</b> (yes) and <b>false</b> (no).                            |
| user_expired               | Boolean          | Whether the account has expired. The options are <b>true</b> (yes) and <b>false</b> (no).                            |
| locked                     | Boolean          | Whether the account is locked. The options are <b>true</b> (yes) and <b>false</b> (no).                              |
| enable_change_password     | Boolean          | Whether the password can be changed. The options are <b>true</b> (yes) and <b>false</b> (no).                        |
| password_never_expired     | Boolean          | Whether the password never expires. The options are <b>true</b> (never expires) and <b>false</b> (will expire).      |
| next_login_change_password | Boolean          | Whether the password needs to be reset upon the next login. The options are <b>true</b> (yes) and <b>false</b> (no). |
| disabled                   | Boolean          | Whether the account is disabled. The options are <b>true</b> (yes) and <b>false</b> (no).                            |
| group_names                | Array of strings | Groups that users join.                                                                                              |
| share_space_subscription   | Boolean          | Whether the user has subscribed to collaboration. The options are <b>true</b> (yes) and <b>false</b> (no).           |
| share_space_desktops       | Integer          | Number of collaborative desktops bound to the user.                                                                  |
| total_desktops             | Integer          | Total number of cloud desktops bound to a user.                                                                      |

**Status code: 400**

**Table 4-1050** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-1051** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-1052** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404**

**Table 4-1053** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 405****Table 4-1054** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-1055** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 503**



**Table 4-1056** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

## Example Requests

```
GET /v2/0bec5db98280d2d02fd6c00c2de791ce/users/8a2c3f9579d240820179d51e6caf0001
null
```

## Example Responses

### Status code: 200

Response to the request for querying details about a specified desktop user.

```
{
 "user_detail" : {
 "description" : "API test user.",
 "id" : "8a2c3f9579d240820179d51e6caf0001",
 "user_name" : "api-test",
 "user_email" : "test@huawei.com",
 "object_sid" : "8a2c3f9579d240820179d51e6caf0001",
 "sam_account_name" : "api-test",
 "full_name" : "api-test",
 "distinguished_name" : "api-test",
 "account_type" : 0,
 "when_created" : "2021-06-03T19:43:31.000Z",
 "account_expires" : 0,
 "user_expired" : false,
 "locked" : false,
 "enable_change_password" : true,
 "password_never_expired" : false,
 "next_login_change_password" : true,
 "disabled" : false,
 "group_names" : ["DomainUsers"],
 "total_desktops" : 0
 }
}
```

## Status Codes

| Status Code | Description                                                                  |
|-------------|------------------------------------------------------------------------------|
| 200         | Response to the request for querying details about a specified desktop user. |
| 400         | The request cannot be understood by the server due to malformed syntax.      |

| Status Code | Description                                                                      |
|-------------|----------------------------------------------------------------------------------|
| 401         | Authentication failed.                                                           |
| 403         | No operation permissions.                                                        |
| 404         | No resources found.                                                              |
| 405         | The method specified in the request is not allowed.                              |
| 500         | An internal service error occurred. For details, see the error code description. |
| 503         | Service unavailable.                                                             |

## Error Codes

See [Error Codes](#).

## 4.8.5 Modifying User Information

### Function

Modifies desktop user information.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

PUT /v2/{project\_id}/users/{user\_id}

**Table 4-1057** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |
| user_id    | Yes       | String | User ID.    |

## Request Parameters

**Table 4-1058** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                         |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | Yes       | String | MIME type of the request body, for example, <b>application/json</b> .                                                                                               |

**Table 4-1059** Request body parameters

| Parameter                  | Mandatory | Type    | Description                                                                                                                                                                                                       |
|----------------------------|-----------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| description                | No        | String  | User description.                                                                                                                                                                                                 |
| user_email                 | No        | String  | User mailbox.                                                                                                                                                                                                     |
| user_phone                 | No        | String  | Mobile number.                                                                                                                                                                                                    |
| active_type                | No        | String  | Activation type, which defaults to activation by users. <ul style="list-style-type: none"> <li><b>USER_ACTIVATE</b>: activated by users</li> <li><b>ADMIN_ACTIVATE</b>: activated by the administrator</li> </ul> |
| account_expires            | No        | String  | Account expiration time. <b>0</b> indicates that the account never expires.                                                                                                                                       |
| enable_change_password     | No        | Boolean | Whether the password can be changed. The options are <b>true</b> (yes) and <b>false</b> (no).                                                                                                                     |
| next_login_change_password | No        | Boolean | Whether the password needs to be reset upon the next login. The options are <b>true</b> (yes) and <b>false</b> (no).                                                                                              |
| password_never_expired     | No        | Boolean | Whether the password never expires. The options are <b>true</b> (never expires) and <b>false</b> (will expire).                                                                                                   |

| Parameter     | Mandatory | Type    | Description                                                                               |
|---------------|-----------|---------|-------------------------------------------------------------------------------------------|
| disabled      | No        | Boolean | Whether the account is disabled. The options are <b>true</b> (yes) and <b>false</b> (no). |
| user_info_map | No        | String  | User information mapping, including the service level, operation mode and type.           |

## Response Parameters

**Status code: 200**

**Table 4-1060** Response body parameters

| Parameter | Type   | Description |
|-----------|--------|-------------|
| id        | String | User ID.    |

**Status code: 400**

**Table 4-1061** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401**

**Table 4-1062** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-1063** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-1064** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 405****Table 4-1065** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500**

**Table 4-1066** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 503**

**Table 4-1067** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

## Example Requests

```
PUT /v2/0bec5db98280d2d02fd6c00c2de791ce/users/8a2c3f9579d240820179d51e6caf0001
{
 "user_email" : "test@huawei.com",
 "description" : "API test user."
}
```

## Example Responses

**Status code: 200**

Response to the request for modifying user information.

```
{
 "id" : "8a2c3f9579d240820179d51e6caf0001"
}
```

## Status Codes

| Status Code | Description                                                                      |
|-------------|----------------------------------------------------------------------------------|
| 200         | Response to the request for modifying user information.                          |
| 400         | The request cannot be understood by the server due to malformed syntax.          |
| 401         | Authentication failed.                                                           |
| 403         | No operation permissions.                                                        |
| 404         | No resources found.                                                              |
| 405         | The method specified in the request is not allowed.                              |
| 500         | An internal service error occurred. For details, see the error code description. |
| 503         | Service unavailable.                                                             |

## Error Codes

See [Error Codes](#).

### 4.8.6 Deleting Users in Batches

#### Function

Deletes desktop users in batches.

#### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

#### URI

POST /v2/{project\_id}/users/batch-delete

**Table 4-1068** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

## Request Parameters

**Table 4-1069** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                         |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | Yes       | String | MIME type of the request body, for example, <b>application/json</b> .                                                                                               |

**Table 4-1070** Request body parameters

| Parameter | Mandatory | Type             | Description       |
|-----------|-----------|------------------|-------------------|
| user_ids  | Yes       | Array of strings | Desktop user IDs. |

## Response Parameters

**Status code: 204**

Normal.

**Status code: 400**

**Table 4-1071** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401**



**Table 4-1072** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-1073** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-1074** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 405**

**Table 4-1075** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-1076** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 503****Table 4-1077** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Example Requests**

```
POST /v2/0bec5db98280d2d02fd6c00c2de791ce/users/batch-delete
{
 "user_ids" : ["8a2c3f9479d5cf360179d61b07070000", "8a2c3f9479d5cf360179d61b18860004"]
}
```

## Example Responses

None

## Status Codes

| Status Code | Description                                                                      |
|-------------|----------------------------------------------------------------------------------|
| 204         | Normal.                                                                          |
| 400         | The request cannot be understood by the server due to malformed syntax.          |
| 401         | Authentication failed.                                                           |
| 403         | No operation permissions.                                                        |
| 404         | No resources found.                                                              |
| 405         | The method specified in the request is not allowed.                              |
| 500         | An internal service error occurred. For details, see the error code description. |
| 503         | Service unavailable.                                                             |

## Error Codes

See [Error Codes](#).

## 4.8.7 Creating Users in Batches

### Function

Creates users in batches.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

POST /v2/{project\_id}/users/batch-create

**Table 4-1078** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |

## Request Parameters

**Table 4-1079** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                         |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | Yes       | String | MIME type of the request body, for example, <b>application/json</b> .                                                                                               |

**Table 4-1080** Request body parameters

| Parameter | Mandatory | Type                                               | Description                         |
|-----------|-----------|----------------------------------------------------|-------------------------------------|
| users     | Yes       | Array of <a href="#">CreateUserRequest</a> objects | Request for creating a single user. |

**Table 4-1081** CreateUserRequest

| Parameter       | Mandatory | Type   | Description                                                                                                                                                                                                       |
|-----------------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| user_name       | Yes       | String | Username.                                                                                                                                                                                                         |
| user_email      | No        | String | User mailbox.                                                                                                                                                                                                     |
| account_expires | No        | String | Account expiration time. <b>0</b> indicates that the account never expires. The time format is yyyy-MM-ddTHH:mm:ssZ or yyyy-MM-ddTHH:mm:ss.SSSZ.                                                                  |
| active_type     | No        | String | Activation type, which defaults to activation by users. <ul style="list-style-type: none"> <li><b>USER_ACTIVATE</b>: activated by users</li> <li><b>ADMIN_ACTIVATE</b>: activated by the administrator</li> </ul> |
| user_phone      | No        | String | Mobile number of the user.                                                                                                                                                                                        |

| Parameter                  | Mandatory | Type             | Description                                                                                                                                                                      |
|----------------------------|-----------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| password                   | No        | String           | Initial user password, which is required for the administrator activation mode.                                                                                                  |
| enable_change_password     | No        | Boolean          | Whether a user can change the password. The default value is <b>true</b> . This field will be invalid later on and will be set to <b>true</b> during creation.                   |
| next_login_change_password | No        | Boolean          | Whether the password must be changed upon the next login. The default value is <b>true</b> . This field will be invalid later on and will be set to <b>true</b> during creation. |
| group_ids                  | No        | Array of strings | Dedicated IDs of the user group.                                                                                                                                                 |
| description                | No        | String           | User description, which contains 0 to 255 characters.                                                                                                                            |
| alias_name                 | No        | String           | Alias.                                                                                                                                                                           |
| enterprise_project_id      | No        | String           | Enterprise project ID.                                                                                                                                                           |
| user_info_map              | No        | String           | User information mapping, including the service level, operation mode and type.                                                                                                  |

## Response Parameters

### Status code: 200

Response to the request for creating Workspace users in batches.

### Status code: 400

**Table 4-1082** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-1083** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-1084** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-1085** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 405**

**Table 4-1086** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-1087** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 503****Table 4-1088** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

## Example Requests

```
POST /v2/0bec5db98280d2d02fd6c00c2de791ce/users/batch-create
```

```
{
 "users": [{
 "user_name": "abc",
 "user_email": "xxx@mail.com"
 }]
}
```

```
 }]
}
```

## Example Responses

None

## Status Codes

| Status Code | Description                                                                      |
|-------------|----------------------------------------------------------------------------------|
| 200         | Response to the request for creating Workspace users in batches.                 |
| 400         | The request cannot be understood by the server due to malformed syntax.          |
| 401         | Authentication failed.                                                           |
| 403         | No operation permissions.                                                        |
| 404         | No resources found.                                                              |
| 405         | The method specified in the request is not allowed.                              |
| 500         | An internal service error occurred. For details, see the error code description. |
| 503         | Service unavailable.                                                             |

## Error Codes

See [Error Codes](#).

## 4.8.8 Performing User-related Operations

### Function

Performs user-related operations, including locking and unlocking a user, and resetting the password. You are advised to use the API `/v2/{project_id}/users/{user_id}/random-password` to reset the password. If no notification method is available, the API `/v2/{project_id}/users/{user_id}/random-password` must be used.

### Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

### URI

POST `/v2/{project_id}/users/{user_id}/actions`



**Table 4-1089** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |
| user_id    | Yes       | String | User ID.    |

## Request Parameters

**Table 4-1090** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                         |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | No        | String | User token.<br>It can be obtained by calling the IAM API used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |
| Content-Type | Yes       | String | MIME type of the request body, for example, <b>application/json</b> .                                                                                               |

**Table 4-1091** Request body parameters

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                           |
|-----------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| op_type   | Yes       | String | Operation type. Options: <ul style="list-style-type: none"> <li>• <b>LOCK</b>: locks a user</li> <li>• <b>UNLOCK</b>: unlocks a user</li> <li>• <b>RESET_PWD</b>: resets the user password</li> </ul> |

## Response Parameters

**Status code: 204**

Normal.

**Status code: 400**

**Table 4-1092** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error code. |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 401****Table 4-1093** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 403****Table 4-1094** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 404****Table 4-1095** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 405****Table 4-1096** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 500****Table 4-1097** Response body parameters

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| error_code                    | String | Error code.                                                                                                                     |
| error_msg                     | String | Error message.                                                                                                                  |
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

**Status code: 503****Table 4-1098** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

| Parameter                     | Type   | Description                                                                                                                     |
|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| encoded_authorization_message | String | Encrypted detailed reason for rejection. You can call the API <b>decode-authorization-message</b> of STS to decrypt the reason. |

## Example Requests

- ```
POST /v2/0bec5db98280d2d02fd6c00c2de791ce/users/8a2c3f9479d5cf360179d622364f0008/actions
{
  "op_type": "LOCK"
}
```
- ```
{
 "op_type": "UNLOCK"
}
```
- ```
{
  "op_type": "RESET_PWD"
}
```

Example Responses

None

Status Codes

Status Code	Description
204	Normal.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.8.9 Resetting a Random Password for a User

Function

Resets the password for a user.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/users/{user_id}/random-password

Table 4-1099 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
user_id	Yes	String	User ID.

Table 4-1100 Query Parameters

Parameter	Mandatory	Type	Description
notification_type	No	String	User notification method. The options are email and phone , which are separated by commas (.). When activation by users is used, the notification method must be contained so that the user can receive password notifications.

Request Parameters

Table 4-1101 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	MIME type of the request body, for example, application/json .

Response Parameters

Status code: 200

Table 4-1102 Response body parameters

Parameter	Type	Description
password	String	Password.

Status code: 400

Table 4-1103 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401

Table 4-1104 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403

Table 4-1105 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-1106** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 405**Table 4-1107** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500

Table 4-1108 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 503**Table 4-1109** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
GET /v2/0bec5db98280d2d02fd6c00c2de791ce/users/8a2c3f9579d240820179d51e6caf0001/random-password
```

Example Responses**Status code: 200**

Normal.

```
{
  "password" : "xxcsafxxA%"
}
```

Status Codes

Status Code	Description
200	Normal.
400	The request cannot be understood by the server due to malformed syntax.

Status Code	Description
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.8.10 Querying OTP Devices

Function

Queries OTP devices of a user.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/users/{user_id}/otp-devices

Table 4-1110 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
user_id	Yes	String	User ID.

Request Parameters

Table 4-1111 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body, for example, application/json .

Response Parameters

Status code: 200

Table 4-1112 Response body parameters

Parameter	Type	Description
otp_devices	Array of OtpDevice objects	OTP device.

Table 4-1113 OtpDevice

Parameter	Type	Description
id	String	User's OTP device ID.
user_id	String	User ID.
user_name	String	Username.
status	String	User's OTP device status. <ul style="list-style-type: none"> ● UNREGISTER: unbound ● REGISTERED: bound
create_time	DateTime	Time when a user's OTP device is bound.

Status code: 400

Table 4-1114 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401**Table 4-1115** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-1116** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404

Table 4-1117 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 405**Table 4-1118** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-1119** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 503

Table 4-1120 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorizati-on-message of STS to decrypt the reason.

Example Requests

```
GET /v2/0bec5db98280d2d02fd6c00c2de791ce/users/8a2c3f9579d240820179d51e6caf0001/otp-devices
```

Example Responses

Status code: 200

Normal.

```
{
  "otp_devices": [ {
    "id": "5311a768c22f4d30914fe50ffdfd1ba5",
    "user_id": "8a2c3f9579d240820179d51e6caf0001",
    "user_name": "zhangsan",
    "status": "UNREGISTER",
    "create_time": "2020-04-10 06:45:14"
  } ]
}
```

Status Codes

Status Code	Description
200	Normal.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.8.11 Unbinding an OTP Device

Function

Unbinds an OTP device from a user.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

DELETE /v2/{project_id}/users/{user_id}/otp-devices

Table 4-1121 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
user_id	Yes	String	User ID.

Request Parameters

Table 4-1122 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body, for example, application/json .

Table 4-1123 Request body parameters

Parameter	Mandatory	Type	Description
otp_ids	No	Array of strings	ID array of the OTP device to be unbound.

Response Parameters

Status code: 204

Normal.

Status code: 400

Table 4-1124 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401

Table 4-1125 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403

Table 4-1126 Response body parameters

Parameter	Type	Description
error_code	String	Error code.

Parameter	Type	Description
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-1127** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 405**Table 4-1128** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-1129** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Parameter	Type	Description
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 503**Table 4-1130** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
DELETE /v2/0bec5db98280d2d02fd6c00c2de791ce/users/8a2c3f9579d240820179d51e6caf0001/otp-devices
{
  "otp_ids" : [ "5311a768c22f4d30914fe50fffd1ba5", "5311a768c22f4d30914fe50fffd1ba6" ]
}
```

Example Responses

None

Status Codes

Status Code	Description
204	Normal.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.

Status Code	Description
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.8.12 Resending an Email

Function

Resends an email.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2/{project_id}/users/{user_id}/resend-email

Table 4-1131 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
user_id	Yes	String	User ID.

Request Parameters

Table 4-1132 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	MIME type of the request body, for example, application/json .

Table 4-1133 Request body parameters

Parameter	Mandatory	Type	Description
template_id	No	String	Email template ID.

Response Parameters

Status code: 200

Normal.

Status code: 400

Table 4-1134 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401

Table 4-1135 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-1136** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-1137** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 405**Table 4-1138** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500

Table 4-1139 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 503**Table 4-1140** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
POST /v2/{{project_id}}/users/8a2c3f9479d5cf360179d622364f0008/resend-email
{
  "template_id": "email01"
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Normal.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.

Status Code	Description
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.9 User Group

4.9.1 Querying User Groups

Function

Query user groups. Pagination is supported.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/groups

Table 4-1141 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-1142 Query Parameters

Parameter	Mandatory	Type	Description
limit	No	String	Limits the quantity of returned user groups in pagination query. If this parameter is not specified or is set to 0, the default value 100 is used. The value starts from 1 and the maximum value is 100.
offset	No	String	Specifies the start position of pagination query. The value starts from 0. The default value is 0 . This parameter must be used together with limit .
keyword	No	String	Specifies the search keyword of a user group. For example, fuzzy query by group name.

Request Parameters

Table 4-1143 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body, for example, application/json.

Response Parameters

Status code: 200

Table 4-1144 Response body parameters

Parameter	Type	Description
total_count	Integer	Total number of user groups that meet the search criteria.

Parameter	Type	Description
user_groups	Array of UserGroupInfo objects	User groups.

Table 4-1145 UserGroupInfo

Parameter	Type	Description
name	String	User group name.
id	String	User group ID.
create_time	String	Time when a user group is created. The value is a UTC time in the format of yyyy-MM-ddTHH:mm:ss.SSSZ.
description	String	User group description.
user_quantity	Integer	Number of users in the user list.
parent	UserGroupInfo object	Upper-level user group of a user group.
realm_id	String	User group domain ID.
platform_type	String	Type of a user group. <ul style="list-style-type: none"> AD: AD domain user group LOCAL: local LiteAS user group
group_dn	String	Name of a user group.
domain	String	Domain name of a user group.
sid	String	SID of a user group.
total_desktops	Integer	Number of users in the user list.

Status code: 400**Table 4-1146** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Parameter	Type	Description
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401**Table 4-1147** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-1148** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-1149** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Parameter	Type	Description
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 405**Table 4-1150** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-1151** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 503**Table 4-1152** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Parameter	Type	Description
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
GET /v2/92c84e5bce3d48d7ab5714a44901eb08/groups?limit=10&offset=20
```

Example Responses

Status code: 200

Response to the request for querying a user group.

```
{
  "total_count": 1,
  "user_groups": [ {
    "name": "string",
    "id": "string",
    "create_time": "string",
    "description": "string",
    "user_quantity": 0,
    "parent": { },
    "realm_id": "string",
    "platform_type": "AD",
    "group_dn": "string",
    "domain": "string",
    "sid": "string",
    "total_desktops": 0
  } ]
}
```

Status Codes

Status Code	Description
200	Response to the request for querying a user group.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details about the error code, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.9.2 Creating a User Group

Function

Create a user group.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2/{project_id}/groups

Table 4-1153 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-1154 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body, for example, application/json.

Table 4-1155 Request body parameters

Parameter	Mandatory	Type	Description
group_name	Yes	String	User group name.

Parameter	Mandatory	Type	Description
platform_type	Yes	String	User group type. <ul style="list-style-type: none"> AD: AD domain user group LOCAL: local LiteAS user group
description	No	String	User group description.

Response Parameters

Status code: 201

Normal.

Status code: 400

Table 4-1156 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401

Table 4-1157 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403

Table 4-1158 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-1159** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 405**Table 4-1160** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500

Table 4-1161 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 503**Table 4-1162** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
POST /v2/92c84e5bce3d48d7ab5714a44901eb08/groups
{
  "group_name": "Domain Users",
  "description": "describe",
  "platform_type": "AD"
}
```

Example Responses

None

Status Codes

Status Code	Description
201	Normal.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.

Status Code	Description
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details about the error code, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.9.3 Deleting User Groups in Batches

Function

Delete user groups in batches.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2/{project_id}/groups/batch-delete

Table 4-1163 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-1164 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body, for example, application/json.

Table 4-1165 Request body parameters

Parameter	Mandatory	Type	Description
group_ids	Yes	Array of strings	User group IDs.

Response Parameters

Status code: 204

Normal.

Status code: 400

Table 4-1166 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401

Table 4-1167 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-1168** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-1169** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 405

Table 4-1170 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-1171** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 503**Table 4-1172** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
POST /v2/0bec5db98280d2d02fd6c00c2de791ce/groups/batch-delete
{
  "group_ids" : [ "8a2c3f9479d5cf360179d61b07070000", "8a2c3f9479d5cf360179d61b18860004" ]
}
```

Example Responses

None

Status Codes

Status Code	Description
204	Normal.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details about the error code, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.9.4 Deleting a User Group

Function

Deletes a user group.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

DELETE /v2/{project_id}/groups/{group_id}

Table 4-1173 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
group_id	Yes	String	Desktop user group ID.

Request Parameters

Table 4-1174 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body, for example, application/json.

Response Parameters

Status code: 204

Normal.

Status code: 400

Table 4-1175 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401

Table 4-1176 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Parameter	Type	Description
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-1177** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-1178** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 405**Table 4-1179** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Parameter	Type	Description
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-1180** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 503**Table 4-1181** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
DELETE /v2/92c84e5bce3d48d7ab5714a44901eb08/groups/daf154d328823028
```

Example Responses

None

Status Codes

Status Code	Description
204	Normal.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details about the error code, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.9.5 Modifying User Group Information

Function

Modify user group information.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT /v2/{project_id}/groups/{group_id}

Table 4-1182 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
group_id	Yes	String	Desktop user group ID.

Request Parameters

Table 4-1183 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body, for example, application/json.

Table 4-1184 Request body parameters

Parameter	Mandatory	Type	Description
description	No	String	User group description.
group_name	No	String	User group name. Note that AD user groups cannot be renamed.

Response Parameters

Status code: 200

Normal.

Status code: 400

Table 4-1185 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401

Table 4-1186 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-1187** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-1188** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 405

Table 4-1189 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-1190** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 503**Table 4-1191** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
PUT /v2/92c84e5bce3d48d7ab5714a44901eb08/groups/e6b0804f90ee11ed99bcfa163e5a5e29
{
  "group_name": "aabbcc",
  "description": "describe"
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Normal.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details about the error code, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.9.6 Performing Operations on a User Group

Function

Perform operations on user groups, such as adding and deleting users.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2/{project_id}/groups/{group_id}/actions

Table 4-1192 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
group_id	Yes	String	Desktop user group ID.

Request Parameters

Table 4-1193 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body, for example, application/json.

Table 4-1194 Request body parameters

Parameter	Mandatory	Type	Description
user_ids	Yes	Array of strings	IDs of users to be added or removed.
op_type	Yes	String	Operation type. <ul style="list-style-type: none"> • ADD: adding • DELETE: deleting

Response Parameters

Status code: 204

Normal.

Status code: 400

Table 4-1195 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401**Table 4-1196** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-1197** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-1198** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 405

Table 4-1199 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-1200** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 503**Table 4-1201** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
POST /v2/92c84e5bce3d48d7ab5714a44901eb08/groups/c3cf7492-a696-453e-bafc-e14f52d9f4c8/actions
{
  "user_ids": [ "995581bc716db75d01719cb0bfe6xxxx" ],
  "op_type": "ADD"
}
```

Example Responses

None

Status Codes

Status Code	Description
204	Normal.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details about the error code, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.9.7 Querying Users in a User Group

Function

Query users in a user group.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/groups/{group_id}/users

Table 4-1202 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
group_id	Yes	String	User group ID.

Table 4-1203 Query Parameters

Parameter	Mandatory	Type	Description
user_name	No	String	The username supports fuzzy search.
description	No	String	The user description supports fuzzy search.
active_type	No	String	Activation type. <ul style="list-style-type: none"> • USER_ACTIVATE: The subscriber is activated. • ADMIN_ACTIVATE: activated by the administrator
enterprise_project_id	No	String	Enterprise project ID.
limit	No	String	Maximum number of desktops that can be returned in a pagination query. If this parameter is not specified or is set to 0, the default value 2000 is used. The maximum value is 2000.
offset	No	String	Start position for pagination query. The value starts from 0.

Request Parameters

Table 4-1204 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body, for example, application/json.

Response Parameters

Status code: 200

Table 4-1205 Response body parameters

Parameter	Type	Description
users	Array of UserInGroup objects	Users associated with the group.
total_count	Integer	Total number of users in the user list.

Table 4-1206 UserInGroup

Parameter	Type	Description
id	String	User ID.
user_name	String	Desktop username.
user_email	String	User mailbox.
user_phone	String	Mobile number of the user.
total_desktops	Integer	Number of desktops of a user.
enterprise_project_id	String	Enterprise project ID.
description	String	User description

Example Requests

None

Example Responses

Status code: 200

Response to the list of users associated with the group.

```
{
  "total_count": 2,
  "users": [ {
    "user_name": "user1",
    "user_email": "xx1@mail.com",
    "user_phone": "18818008887",
    "id": "8357fd328c62447d94e452bf49xxxx"
  }, {
    "user_name": "user2",
    "user_email": "xx2@mail.com",
    "user_phone": "18818008888",
    "id": "8357fd328c62447d94e452bf49xxxx"
  } ]
}
```

Status Codes

Status Code	Description
200	Response to the list of users associated with the group.

Error Codes

See [Error Codes](#).

4.10 OU

4.10.1 Querying OUs

Function

Queries OUs.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/ous

Table 4-1207 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-1208 Query Parameters

Parameter	Mandatory	Type	Description
ou_name	No	String	OU name.
limit	No	Integer	Limits the quantity of returned desktops in pagination query. If this parameter is not specified, all desktops that meet the search criteria are returned.

Parameter	Mandatory	Type	Description
offset	No	Integer	Where the pagination query starts. The value starts from 0.

Request Parameters

Table 4-1209 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body, for example, application/json .

Response Parameters

Status code: 200

Table 4-1210 Response body parameters

Parameter	Type	Description
ous	Array of OuNameInfo objects	OU object.
total_count	Integer	Total number of OU records.

Table 4-1211 OuNameInfo

Parameter	Type	Description
id	String	OU ID.
domain_id	String	Domain ID.
domain	String	Domain name.
ou_name	String	OU name.

Parameter	Type	Description
ou_dn	String	ouDn.
description	String	Description.

Status code: 400**Table 4-1212** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401**Table 4-1213** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-1214** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Parameter	Type	Description
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-1215** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 405**Table 4-1216** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-1217** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Parameter	Type	Description
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 503**Table 4-1218** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

None

Example Responses**Status code: 200**

Queries OU information.

```
{
  "ous" : [ {
    "id" : "2c90833f7f435594017f446a684b0017",
    "domain" : "wksmanager.wks.com",
    "domain_id" : "wksmanager.wks.com",
    "ou_name" : "wggou",
    "description" : ""
  } ],
  "total_count" : 1
}
```

Status Codes

Status Code	Description
200	Queries OU information.
400	The request cannot be understood by the server due to malformed syntax.

Status Code	Description
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.10.2 Adding OU Information

Function

Creates an OU.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2/{project_id}/ous

Table 4-1219 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-1220 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body, for example, application/json .

Table 4-1221 Request body parameters

Parameter	Mandatory	Type	Description
domain	Yes	String	Domain name.
ou_name	Yes	String	OU name.
description	No	String	Description.

Response Parameters

Status code: 200

Table 4-1222 Response body parameters

Parameter	Type	Description
id	String	ID of the OU to be created.

Status code: 400

Table 4-1223 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Parameter	Type	Description
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401**Table 4-1224** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-1225** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-1226** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Parameter	Type	Description
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 405**Table 4-1227** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-1228** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 503**Table 4-1229** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Parameter	Type	Description
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
{
  "ou_name": "testou",
  "domain": "hcsoad.huawei.com",
  "description": "Adds an OU."
}
```

Example Responses

Status code: 200

Response to the request for creating an OU.

```
{
  "id": "2c90833f7f435594017f446a684b0017"
}
```

Status Codes

Status Code	Description
200	Response to the request for creating an OU.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.10.3 Deleting OU Information

Function

Deletes OU information.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

DELETE /v2/{project_id}/ous/{ou_id}

Table 4-1230 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
ou_id	Yes	String	OU ID.

Request Parameters

Table 4-1231 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body, for example, application/json .

Response Parameters

Status code: 204

Response to the request for deleting OU information.

Status code: 400

Table 4-1232 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401**Table 4-1233** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-1234** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404

Table 4-1235 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 405**Table 4-1236** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-1237** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 503

Table 4-1238 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
204	Response to the request for deleting OU information.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.10.4 Updating OU Information

Function

Updates OU information.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT /v2/{project_id}/ous/{ou_id}

Table 4-1239 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
ou_id	Yes	String	OU ID.

Request Parameters

Table 4-1240 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body, for example, application/json .

Table 4-1241 Request body parameters

Parameter	Mandatory	Type	Description
id	No	String	OU ID.
ou_name	Yes	String	OU name.
description	No	String	Description.

Response Parameters

Status code: 200

Response to the request for updating OU information.

Status code: 400**Table 4-1242** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401**Table 4-1243** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-1244** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404

Table 4-1245 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 405**Table 4-1246** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-1247** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 503

Table 4-1248 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
{
  "id" : "string",
  "ou_name" : "string",
  "description" : "string"
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Response to the request for updating OU information.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.10.5 Querying OUs in the AD Domain

Function

Queries OUs in the AD domain.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/ad-ous

Table 4-1249 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-1250 Query Parameters

Parameter	Mandatory	Type	Description
limit	No	Integer	Limits the quantity of returned desktops in pagination query. If this parameter is not specified, all desktops that meet the search criteria are returned.
offset	No	Integer	Where the pagination query starts. The value starts from 0.

Request Parameters

Table 4-1251 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	MIME type of the request body, for example, application/json .

Response Parameters

Status code: 200

Table 4-1252 Response body parameters

Parameter	Type	Description
ou_infos	Array of AdOulInfo objects	OU object.
total_count	Integer	Total number of OU records.

Table 4-1253 AdOulInfo

Parameter	Type	Description
ou_name	String	Name.
ou_dn	String	Domain name address.

Status code: 400

Table 4-1254 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401

Table 4-1255 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-1256** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-1257** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 405

Table 4-1258 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-1259** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 503**Table 4-1260** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

None

Example Responses

Status code: 200

Queries OU information.

```
{
  "ou_infos" : [ {
    "ou_name" : "wksmanager",
    "ou_dn" : "OU=UserOU,DC=vdesktop,DC=huawei,DC=com"
  } ],
  "total_count" : 1
}
```

Status Codes

Status Code	Description
200	Queries OU information.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.10.6 Querying Users in an OU

Function

Queries users in an OU.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/ou-users

Table 4-1261 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-1262 Query Parameters

Parameter	Mandatory	Type	Description
ou_dn	Yes	String	Domain name address of the OU.
user_name	No	String	Username. Fuzzy search is supported.
has_existed	No	Boolean	Whether the user exists.
limit	No	Integer	Limits the quantity of returned desktops in pagination query. If this parameter is not specified, all desktops that meet the search criteria are returned.
offset	No	Integer	Where the pagination query starts. The value starts from 0.

Request Parameters

Table 4-1263 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body, for example, application/json .

Response Parameters

Status code: 200

Table 4-1264 Response body parameters

Parameter	Type	Description
user_infos	Array of AdOuUserInfo objects	OU object.
total_count	Integer	Number of users.
enable_create_count	Integer	Number of users that can be created.

Table 4-1265 AdOuUserInfo

Parameter	Type	Description
user_name	String	Name.
expired_time	String	Expiration time. The value -1 means never expiring.
has_existed	Boolean	Whether the user exists in the user list.

Status code: 400**Table 4-1266** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401**Table 4-1267** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Parameter	Type	Description
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-1268** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-1269** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 405**Table 4-1270** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Parameter	Type	Description
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-1271** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 503**Table 4-1272** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

None

Example Responses**Status code: 200**

Queries OU information.

```
{
  "user_infos": [ {
    "user_name": "wksmanager",
```

```

    "expired_time" : "2022-12-17 00:00:00",
    "has_existed" : false
  }, {
    "user_name" : "wksmanager",
    "expired_time" : "-1",
    "has_existed" : false
  } ],
  "total_count" : 2
}

```

Status Codes

Status Code	Description
200	Queries OU information.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.11 Disk

4.11.1 Adding a Desktop Disk

Function

Adds disks to a single desktop.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2/{project_id}/desktops/{desktop_id}/volumes

Table 4-1273 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
desktop_id	Yes	String	Desktop ID.

Request Parameters

Table 4-1274 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	No	String	MIME type of the request body.
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API that is used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 4-1275 Request body parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID, which is 0 by default.
volumes	Yes	Array of Volume objects	Information about the disks to be added. Each desktop can contain a maximum of 10 data disks.

Table 4-1276 Volume

Parameter	Mandatory	Type	Description
type	Yes	String	Desktop data disk type, which must be the same as the disk type provided by the system. <ul style="list-style-type: none"> • SAS: high I/O • SSD: ultra-high I/O • GPSSD: general-purpose SSD
size	Yes	Integer	Disk capacity in GB. The system disk size ranges from 80 to 32760, and the data disk size ranges from 10 to 32760. The value must be a multiple of 10.

Response Parameters

Status code: 200

Table 4-1277 Response body parameters

Parameter	Type	Description
job_id	String	ID of the task for adding a disk.
getJobEndpoint	String	After obtaining JobId , the Cloud Business Center (CBC) uses getJobEndpoint as the URL to call the cloud service and query the Job result.
maxProvisionTime	Integer	Maximum time needed for cloud service subscription.
minProvisionTime	Integer	Minimum time needed for cloud service subscription (minimum or average time needed).
periodicQueryTime	Integer	Periodic job query frequency. The default value is 1 minute.

Status code: 400

Table 4-1278 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401**Table 4-1279** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-1280** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-1281** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 409**Table 4-1282** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-1283** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.

Parameter	Type	Description
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
/v2/9565be6e740941c493b38a1f46ecae6f/desktops/3ec05f83-b8a3-4c72-857f-b33f55943320/volumes
{
  "enterprise_project_id" : "0",
  "volumes" : [ {
    "type" : "SAS",
    "size" : 80
  } ]
}
```

Example Responses

Status code: 200

Normal.

```
{
  "job_id" : "string",
  "getJobEndpoint" : "string",
  "maxProvisionTime" : 60,
  "minProvisionTime" : 3,
  "periodicQueryTime" : 1
}
```

Status Codes

Status Code	Description
200	Normal.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
409	Operation conflict.
500	An internal service error occurred. For details, see the error code description.

Error Codes

See [Error Codes](#).

4.11.2 Deletes a data disk from the desktop

Function

Deletes a data disk from the desktop. The deleted data disk cannot be restored.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2/{project_id}/desktops/{desktop_id}/volumes/batch-delete

Table 4-1284 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
desktop_id	Yes	String	Desktop ID.

Request Parameters

Table 4-1285 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	No	String	MIME type of the request body.
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API that is used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 4-1286 Request body parameters

Parameter	Mandatory	Type	Description
volume_ids	No	Array of strings	List of the IDs of data disks to be deleted from the desktop.

Response Parameters

Status code: 200

Table 4-1287 Response body parameters

Parameter	Type	Description
job_id	String	Task ID.

Status code: 400

Table 4-1288 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401

Table 4-1289 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.

Parameter	Type	Description
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-1290** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-1291** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 409

Table 4-1292 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-1293** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
{
  "volume_ids" : [ "8a6c7a76-5476-4e13-827d-c331b829e245", "2e49af66-7e7d-4c04-a6a6-0cc094b67009" ]
}
```

Example Responses

Status code: 200

Normal.

```
{
  "job_id" : "abc85365-0b2e-4b4f-a091-f7db72072d4b"
}
```

Status Codes

Status Code	Description
200	Normal.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
409	Operation conflict.
500	An internal service error occurred. For details about the error code, see the error code description.

Error Codes

See [Error Codes](#).

4.11.3 Adding Desktop Disks in Batches

Function

Adds desktop disks in batches.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2/{project_id}/volumes

Table 4-1294 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-1295 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	No	String	MIME type of the request body.
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API that is used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 4-1296 Request body parameters

Parameter	Mandatory	Type	Description
desktop_volumes	No	Array of AddDesktopVolumesReq objects	Adds disk parameters.

Table 4-1297 AddDesktopVolumesReq

Parameter	Mandatory	Type	Description
desktop_id	No	String	Desktop ID.
volumes	No	Array of Volume objects	Information about the disks to be added. One desktop can contain a maximum of 10 data disks.

Table 4-1298 Volume

Parameter	Mandatory	Type	Description
type	Yes	String	Desktop data disk type, which must be the same as the disk type provided by the system. <ul style="list-style-type: none"> • SAS: high I/O • SSD: ultra-high I/O • GPSSD: general-purpose SSD
size	Yes	Integer	Disk capacity in GB. The system disk size ranges from 80 to 32760, and the data disk size ranges from 10 to 32760. The value must be a multiple of 10.

Response Parameters

Status code: 200

Table 4-1299 Response body parameters

Parameter	Type	Description
job_id	String	ID of the task for adding a disk.

Status code: 400

Table 4-1300 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401

Table 4-1301 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-1302** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-1303** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 409**Table 4-1304** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-1305** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
{
  "desktop_volumes": [ {
    "desktop_id": "string",
    "volumes": [ {
      "type": "SAS",
      "size": 80
    } ]
  } ]
}
```

Example Responses**Status code: 200**

Normal.

```
{
  "job_id" : "1792d3eb-35c6-4e99-8381-abfc8e02126b"
}
```

Status Codes

Status Code	Description
200	Normal.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
409	Operation conflict.
500	An internal service error occurred. For details about the error code, see the error code description.

Error Codes

See [Error Codes](#).

4.11.4 Expanding Disk Capacity

Function

Expands disk capacity.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2/{project_id}/desktops/{desktop_id}/volumes/{volume_id}/expand

Table 4-1306 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
desktop_id	Yes	String	Desktop ID.
volume_id	Yes	String	Disk ID.

Request Parameters

Table 4-1307 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	No	String	MIME type of the request body.
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API that is used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 4-1308 Request body parameters

Parameter	Mandatory	Type	Description
new_size	Yes	Integer	Disk size (GB) after capacity expansion.

Response Parameters

Status code: 200

Table 4-1309 Response body parameters

Parameter	Type	Description
job_id	String	ID of the task for expanding disk capacity.
getJobEndpoint	String	After obtaining JobId , the Cloud Business Center (CBC) uses getJobEndpoint as the URL to call the cloud service and query the Job result.
maxProvisionTime	Integer	Maximum time needed for cloud service subscription.
minProvisionTime	Integer	Minimum time needed for cloud service subscription (minimum or average time needed).
periodicQueryTime	Integer	Periodic job query frequency. The default value is 1 minute.

Status code: 400**Table 4-1310** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401**Table 4-1311** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-1312** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.

Parameter	Type	Description
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-1313** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 409**Table 4-1314** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500

Table 4-1315 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
POST /v2/9565be6e740941c493b38a1f46ecae6f/desktops/3ec05f83-b8a3-4c72-857f-b33f55943320/volumes/474e1bd3-8862-457a-bfaf-e381f873146f/expand
{
  "new_size" : 120
}
```

Example Responses

Status code: 200

Normal.

```
{
  "job_id" : "string"
}
```

Status Codes

Status Code	Description
200	Normal.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
409	Operation conflict.
500	An internal service error occurred. For details, see the error code description.

Error Codes

See [Error Codes](#).

4.11.5 Expands the disk capacity of a desktop

Function

Expands the disk capacity of a desktop.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2/{project_id}/volumes/expand

Table 4-1316 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-1317 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	No	String	MIME type of the request body.
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API that is used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 4-1318 Request body parameters

Parameter	Mandatory	Type	Description
desktop_volumes_expansion	No	Array of ExpandVolumesReq objects	Parameters for expanding the disk capacity.

Table 4-1319 ExpandVolumesReq

Parameter	Mandatory	Type	Description
desktop_id	No	String	Desktop ID.
volume_id	No	String	Disk ID.
new_size	No	Integer	Disk size (GB) after capacity expansion.

Response Parameters

Status code: 200

Table 4-1320 Response body parameters

Parameter	Type	Description
job_id	String	ID of the disk capacity expansion task.

Status code: 400

Table 4-1321 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401**Table 4-1322** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-1323** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-1324** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.

Parameter	Type	Description
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 409**Table 4-1325** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-1326** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
{
  "desktop_volumes_expansion" : [ {
    "desktop_id" : "41162624-ba52-42f3-bdda-15c6d345ff64",
    "volume_id" : "41162624-ba52-42f3-bdda-15c6d345ff65",
    "new_size" : 120
  } ]
}
```

```
  }]  
}
```

Example Responses

Status code: 200

Normal.

```
{  
  "job_id" : "41162624-ba52-42f3-bdda-15c6d345ff60"  
}
```

Status Codes

Status Code	Description
200	Normal.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
409	Operation conflict.
500	An internal service error occurred. For details about the error code, see the error code description.

Error Codes

See [Error Codes](#).

4.11.6 Querying Disk Product Information

Function

Queries disk product information.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/volume/products

Table 4-1327 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-1328 Query Parameters

Parameter	Mandatory	Type	Description
availability_zone	No	String	AZ.
volume_type	No	String	Disk type. Multiple disk types are separated by commas (,): <ul style="list-style-type: none"> • SATA: common I/O disk • SAS: high I/O disk • SSD: ultra-high I/O disk

Request Parameters

Table 4-1329 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body, for example, application/json .

Response Parameters

Status code: 200

Table 4-1330 Response body parameters

Parameter	Type	Description
volumes	Array of VolumeProductInfo objects	Disk product information list.

Table 4-1331 VolumeProductInfo

Parameter	Type	Description
resource_spec_code	String	Product ID.
volume_type	String	Disk type: <ul style="list-style-type: none"> • SATA: common I/O disk • SAS: high I/O disk • SSD: ultra-high I/O disk
volume_product_type	String	Product type. The value is workspace .
resource_type	String	Resource type.
cloud_service_type	String	Cloud service type.
domain_ids	Array of strings	ID of the dedicated domain supported by the disk.
name	Array of I18nLanguage objects	Disk name.
status	String	Product status. The value can be normal or sellout .

Table 4-1332 I18nLanguage

Parameter	Type	Description
language	String	Language.
value	String	Value.

Status code: 400**Table 4-1333** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401**Table 4-1334** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-1335** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-1336** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 405

Table 4-1337 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-1338** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 503**Table 4-1339** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
/v2/0e3f393ae380f5d12facc005678bcd4b/volume/products?vailability_zone=cn-north-4a&volume_type=SSD,SAS
```

Example Responses

Status code: 200

Response to the request for querying EVS disk types.

```
{
  "volumes": [ {
    "resource_spec_code": "workspace.volume.ultrahigh",
    "volume_type": "SSD",
    "volume_product_type": "workspace",
    "resource_type": "hws.resource.type.workspace.volume",
    "cloud_service_type": "hws.service.type.vdi",
    "name": [ {
      "language": "en-us",
      "value": "Ultra high IO Disk"
    }, {
      "language": "zh-cn",
      "value": "Ultra-high I/O disk"
    } ]
  } ]
}
```

Status Codes

Status Code	Description
200	Response to the request for querying EVS disk types.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.12 Snapshot

4.12.1 Creating Snapshots in Batches

Function

Creates snapshots in batches.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2/{project_id}/snapshots/batch-create

Table 4-1340 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-1341 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 4-1342 Request body parameters

Parameter	Mandatory	Type	Description
desktop_ids	No	Array of strings	Desktop ID array. A maximum of 100 desktop IDs are supported.
disk_type	No	String	Snapshot type: <ul style="list-style-type: none"> • SYSTEM_DISK: system disk • DATA_DISKS: data disk • ALL: system disk and data disk
system_disk_snapshot	No	DiskSnapshot Info object	Disk snapshot information.
data_disk_snapshot	No	DiskSnapshot Info object	Disk snapshot information.

Table 4-1343 DiskSnapshotInfo

Parameter	Mandatory	Type	Description
name	No	String	Disk snapshot name. The name of a batch operation is in the format of desktop name + disk snapshot name + timestamp .
description	No	String	Disk snapshot description.

Response Parameters

Status code: 200

Table 4-1344 Response body parameters

Parameter	Type	Description
job_id	String	Task ID.

Status code: 400

Table 4-1345 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404

Table 4-1346 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.

Parameter	Type	Description
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 409**Table 4-1347** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-1348** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: default

Table 4-1349 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
{
  "desktop_ids" : [ "xxxx3bc6-1512-4386-81fb-20604fe6xxxx" ],
  "disk_type" : "string",
  "system_disk_snapshot" : {
    "name" : "string",
    "description" : "string"
  },
  "data_disk_snapshot" : {
    "name" : "string",
    "description" : "string"
  }
}
```

Example Responses

Status code: 200

OK.

```
{
  "job_id" : "1792d3eb-35c6-4e99-8381-abfc8e02126b"
}
```

Status Codes

Status Code	Description
200	OK.
400	The request cannot be understood by the server due to malformed syntax.
404	No resources found.
409	Operation conflict.
500	An internal service error occurred. For details, see the error code description.

Status Code	Description
default	Default response to a failure.

Error Codes

See [Error Codes](#).

4.12.2 Deleting Snapshots in Batches

Function

Deletes snapshots in batches.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2/{project_id}/snapshots/batch-delete

Table 4-1350 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-1351 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 4-1352 Request body parameters

Parameter	Mandatory	Type	Description
snapshot_ids	No	Array of strings	Snapshot ID array. A maximum of 100 snapshot IDs are supported.

Response Parameters

Status code: 200

Table 4-1353 Response body parameters

Parameter	Type	Description
job_id	String	Task ID.

Status code: 400

Table 4-1354 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404

Table 4-1355 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.

Parameter	Type	Description
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 409**Table 4-1356** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-1357** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: default

Table 4-1358 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
{
  "snapshot_ids" : [ "xxxx2e67-2ee8-4ac8-9bf9-1e5ba823xxxx" ]
}
```

Example Responses

Status code: 200

OK.

```
{
  "job_id" : "1792d3eb-35c6-4e99-8381-abfc8e02126b"
}
```

Status Codes

Status Code	Description
200	OK.
400	The request cannot be understood by the server due to malformed syntax.
404	No resources found.
409	Operation conflict.
500	An internal service error occurred. For details, see the error code description.
default	Default response to a failure.

Error Codes

See [Error Codes](#).

4.12.3 Restoring Snapshots in Batches

Function

Restores snapshots in batches.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2/{project_id}/snapshots/batch-restore

Table 4-1359 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-1360 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 4-1361 Request body parameters

Parameter	Mandatory	Type	Description
snapshot_ids	No	Array of strings	Desktop snapshot record ID array. A maximum of 100 desktop snapshot record IDs are supported.

Response Parameters

Status code: 200

Table 4-1362 Response body parameters

Parameter	Type	Description
job_id	String	Task ID.

Status code: 400**Table 4-1363** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-1364** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 409

Table 4-1365 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-1366** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: default**Table 4-1367** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
{
  "snapshot_ids" : [ "xxx3bc6-1512-4386-81fb-20604fe6xxx" ]
}
```

Example Responses

Status code: 200

OK.

```
{
  "job_id" : "1792d3eb-35c6-4e99-8381-abfc8e02126b"
}
```

Status Codes

Status Code	Description
200	OK.
400	The request cannot be understood by the server due to malformed syntax.
404	No resources found.
409	Operation conflict.
500	An internal service error occurred. For details, see the error code description.
default	Default response to a failure.

Error Codes

See [Error Codes](#).

4.12.4 Querying Snapshots

Function

Queries snapshots.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/snapshots

Table 4-1368 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-1369 Query Parameters

Parameter	Mandatory	Type	Description
desktop_id	No	String	Desktop ID.
desktop_name	No	String	Desktop name.
snapshot_name	No	String	Snapshot name.
disk_type	No	String	Snapshot type: <ul style="list-style-type: none"> ● SYSTEM_DISK: system disk ● DATA_DISKS: data disk ● ALL: system disk and data disk
create_type	No	String	Snapshot creation method: <ul style="list-style-type: none"> ● AUTO: automatically created in a scheduled task ● MANUALLY: manually created
status	No	String	Snapshot status: <ul style="list-style-type: none"> ● creating: being created ● restoring: being restored ● create_success: created ● create_failed: creation failed ● restore_success: restored ● restore_failed: restoration failed
sort_field	No	String	Sorting field, which must be used together with sort_type . <ul style="list-style-type: none"> ● create_time: creation time ● snapshot_name: snapshot name

Parameter	Mandatory	Type	Description
sort_type	No	String	Sorting type, which defaults to ascending order. This parameter must be used together with sort_field . <ul style="list-style-type: none"> • ASC: ascending order • DESC: descending order
offset	No	Integer	Where the pagination query starts. The value starts from 0 .
limit	No	Integer	Used for pagination query. The value ranges from 1 to 1,000 (default).

Request Parameters

Table 4-1370 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-1371 Response body parameters

Parameter	Type	Description
desktop_snapshots	Array of DesktopSnapshotDetailInfo objects	Desktop snapshot detail list.
total_count	Integer	Total number of desktop snapshots.

Table 4-1372 DesktopSnapshotDetailInfo

Parameter	Type	Description
snapshot_id	String	Desktop snapshot ID.
snapshot_name	String	Desktop snapshot record name.
desktop_id	String	ID of the desktop corresponding to the snapshot.
desktop_name	String	Name of the desktop corresponding to the snapshot.
desktop_sid	String	SID of the desktop corresponding to the snapshot.
desktop_pool_id	String	ID of the desktop pool corresponding to the snapshot.
is_system_disk	Boolean	Disk type corresponding to the snapshot. The value true indicates the system disk, and the value false indicates the data disk.
status	String	Snapshot status: <ul style="list-style-type: none"> • creating: being created • restoring: being restored • create_success: created • create_failed: creation failed • restore_success: restored • restore_failed: restoration failed
process	Integer	Snapshot task progress. The value ranges from 0 to 100, or is null . null indicates that there is no task on the snapshot. The value from 0 to 100 indicates the task progress percentage.
description	String	Snapshot description.
create_time	String	Snapshot creation time (UTC time, yyyy-MM-dd'T'HH:mm:ss'Z').
create_type	String	Snapshot creation method: <ul style="list-style-type: none"> • AUTO: automatically created in a scheduled task • MANUALLY: manually created
last_restore_time	String	Latest snapshot restoration time (UTC time, yyyy-MM-dd'T'HH:mm:ss'Z').
restore_failure_reason	String	Snapshot restoration failure cause.

Status code: 400**Table 4-1373** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-1374** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-1375** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.

Parameter	Type	Description
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500

Table 4-1376 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: default

Table 4-1377 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

/v2/bcae3e673fd04716a3b9dacdf58ca336/snapshots

Example Responses

Status code: 200

OK.

```
{
  "total_count": 2,
  "desktop_snapshots": [ {
    "snapshot_id": "eed156d9-02a5-46f5-8eb1-54f09ab9fbae",
    "snapshot_name": "sys0420_xzx03_1713602176593",
    "desktop_id": "7163a7ba-fc09-4238-ab73-0689ea7f54c3",
    "desktop_name": "xzx03",
    "desktop_sid": "22ad6780-3236-4838-b509-8068d254e9de",
    "is_system_disk": true,
    "status": "create_success",
    "description": "Description.",
    "create_time": "2024-04-20T08:36:16Z",
    "create_type": "MANUALLY"
  }, {
    "snapshot_id": "a7e996da-20db-4de8-8aff-4c8e4c6d5ed3",
    "snapshot_name": "AUTOCREATED_AA_1713595811910",
    "desktop_id": "a3e8d0d0-79df-413d-a327-d702a4fb2e15",
    "desktop_name": "AA",
    "desktop_sid": "1346b13d-d3e4-4965-bfb4-5bb880bf7dbf",
    "is_system_disk": false,
    "status": "create_success",
    "description": "Description.",
    "create_time": "2024-04-20T06:50:11Z",
    "create_type": "AUTO"
  } ]
}
```

Status Codes

Status Code	Description
200	OK.
400	The request cannot be understood by the server due to malformed syntax.
403	No operation permissions.
404	No resources found.
500	An internal service error occurred. For details, see the error code description.
default	Default response to a failure.

Error Codes

See [Error Codes](#).

4.13 Connection Information

4.13.1 Querying Login Information

Function

Queries login information.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/connections/desktops

Table 4-1378 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-1379 Query Parameters

Parameter	Mandatory	Type	Description
start_time	No	String	Start time of the query. If this parameter is specified, all login records after the specified time are returned. An example format is 2016-08-20T21:11Z. If the end time is not empty, the start time is mandatory.
end_time	No	String	End time of the query. If this parameter is specified, all login records before the specified time are returned. An example format is 2016-08-20T21:11Z. If the start time is not empty, the end time is mandatory.
user_name	No	String	Username for logging in to the desktop.
computer_name	No	String	Computer name, which is included in the OS information.

Parameter	Mandatory	Type	Description
terminal_type	No	String	System type of the terminal used to log in to the desktop. Currently, the value can be WI (Workspace client).
offset	No	Integer	Where the pagination query starts. The value starts from 0.
limit	No	Integer	Number of returned login records for pagination query. The value ranges from 0 to 1,000. The default value is 20.
min_network_rtt	No	Integer	Queries the minimum E2E latency.
max_network_rtt	No	Integer	Queries the maximum E2E latency.

Request Parameters

Table 4-1380 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	MIME type of the request body, for example, application/json .
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-1381 Response body parameters

Parameter	Type	Description
total_count	Integer	Total number of user login records.
records	Array of Record objects	User login record.

Table 4-1382 Record

Parameter	Type	Description
tenantId	String	Tenant ID, which is not displayed externally.
sid	String	Desktop SID.
transaction_id	String	Transaction ID.
computer_name	String	Desktop name.
user_name	String	Username.
terminal_mac	String	MAC address of the terminal.
terminal_name	String	Terminal name.
terminal_ip	String	Terminal IP address.
client_version	String	AccessClient version.
terminal_type	String	Terminal OS type.
agent_version	String	AccessAgent version.
desktop_ip	String	Desktop IP address.
connection_start_time	String	Connection start time.
connection_setup_time	String	Connection setup time.
connection_end_time	String	Connection end time.
is_reconnect	Boolean	Whether to reconnect.
connection_failure_reason	String	Connection failure cause.
network_rtt	Integer	Network latency (ms).
e2e_rtt	Integer	E2E latency (ms).
source_ip	String	Source IP address of the client
public_ip	String	Outbound IP address of the client

Status code: 400

Table 4-1383 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 401**Table 4-1384** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 403**Table 4-1385** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 404**Table 4-1386** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 405**Table 4-1387** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 500**Table 4-1388** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 503**Table 4-1389** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

```
GET /v2/0e69423d4400f4a82f67c0059a1e4cc8/connections/desktops?offset=258
```

Example Responses**Status code: 200**

Login information query response.

```
{
  "total_count": 4,
  "records": [ {
    "computer_name": "JY011",
    "user_name": "jy01@local.com",
    "terminal_mac": "00-ac-9c-c7-9a-df",
    "terminal_name": "DESKTOP-EGOP3TR",
    "terminal_ip": "8.5.60.58",
    "client_version": "1.8.00005",
    "terminal_type": "Windows 10",
    "agent_version": "1.8.00005.10546",
    "desktop_ip": "172.16.148.250",
    "connection_start_time": "2020-04-24T03:02:47Z",
    "connection_setup_time": "2020-04-24T03:02:49Z",
    "connection_end_time": "2020-04-24T03:36:43Z",
    "is_reconnect": false,
    "public_ip": "0.0.0.0"
  }, {
    "computer_name": "JY011",
    "user_name": "jy01@local.com",
    "terminal_mac": "00-ac-9c-c7-9a-df",
    "terminal_name": "DESKTOP-EGOP3TR",
    "terminal_ip": "8.5.60.58",
    "client_version": "1.8.00005",
    "terminal_type": "Windows 10",
    "agent_version": "1.8.00005.10546",
    "desktop_ip": "172.16.148.250",
    "connection_start_time": "2020-04-23T08:58:02Z",
```

```

"connection_setup_time" : "2020-04-23T08:58:05Z",
"connection_end_time" : "2020-04-23T22:45:00Z",
"is_reconnect" : false,
"public_ip" : "0.0.0.0"
} ]
}

```

Status Codes

Status Code	Description
200	Login information query response.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.13.2 Querying Desktop Login Statuses

Function

Queries desktop login statuses.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/connections/status

Table 4-1390 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-1391 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API that is used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	No	String	MIME type of the request body.

Response Parameters

Status code: 200

Table 4-1392 Response body parameters

Parameter	Type	Description
statics	Array of InstanceStatusStatistics objects	Statistics.

Table 4-1393 InstanceStatusStatistics

Parameter	Type	Description
static_name	String	Statistical object name (VM group name or desktop group name).
running_num	Integer	Number of active desktops (running, starting, failover, or migrating).
stop_num	Integer	Number of stopped desktops (stopping and stopped).
hibernate_num	Integer	Number of hibernated desktops (hibernating and hibernated).
other_num	Integer	Desktops in other statuses, such as unknown, deletion failed, and deleting.
attached_num	Integer	Number of assigned desktops.
unattached_num	Integer	Number of desktops not assigned.

Parameter	Type	Description
cannot_attach_num	Integer	Number of desktops that cannot be assigned (assignment failed, unassignment failed, and unassigned).
in_process_num	Integer	Number of desktops being assigned or unassigned.
in_use_num	Integer	Number of desktops in use.
unregistered_num	Integer	Number of unregistered desktops.
ready_num	Integer	Number of idle desktops.
disconnected_num	Integer	Number of disconnected desktops.
unknown_num	Integer	Number of unknown desktops.

Status code: 400**Table 4-1394** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401**Table 4-1395** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.

Parameter	Type	Description
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-1396** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-1397** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500

Table 4-1398 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

None

Example Responses

Status code: 200

Response to the request for querying desktop login statuses.

```
{
  "statics": [ {
    "static_name": "string",
    "running_num": 2147483647,
    "stop_num": 2147483647,
    "hibernate_num": 2147483647,
    "other_num": 2147483647,
    "attached_num": 2147483647,
    "unattached_num": 2147483647,
    "cannot_attach_num": 2147483647,
    "in_process_num": 2147483647,
    "in_use_num": 2147483647,
    "unregistered_num": 2147483647,
    "ready_num": 2147483647,
    "disconnected_num": 2147483647,
    "unknown_num": 2147483647
  } ]
}
```

Status Codes

Status Code	Description
200	Response to the request for querying desktop login statuses.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.

Status Code	Description
404	No resources found.
500	An internal service error occurred. For details, see the error code description.

Error Codes

See [Error Codes](#).

4.13.3 Exporting Connection Records

Function

Exports connection records.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/connections/desktops/export

Table 4-1399 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-1400 Query Parameters

Parameter	Mandatory	Type	Description
start_time	No	String	Start time of the query. If this parameter is specified, all login records after the specified time are returned. An example format is 2016-08-20T21:11Z. If the end time is not empty, the start time is mandatory.

Parameter	Mandatory	Type	Description
end_time	No	String	End time of the query. If this parameter is specified, all login records before the specified time are returned. An example format is 2016-08-20T21:11Z. If the start time is not empty, the end time is mandatory.
user_name	No	String	Username for logging in to the desktop.
computer_name	No	String	Computer name, which is included in the OS information.
terminal_type	No	String	OS type of the terminal used for logging in to a desktop.
language	No	String	Language of the exported records, which is English by default. <ul style="list-style-type: none"> • zh_CN: Chinese • en_US: English

Request Parameters

Table 4-1401 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body, for example, application/json .

Response Parameters

Status code: 200

Exports the file of user login information.

Status code: 400

Table 4-1402 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401**Table 4-1403** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-1404** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404

Table 4-1405 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 405**Table 4-1406** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-1407** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 503

Table 4-1408 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
GET /v2/8dc9c40a06574a598941b254d4b63b43/connections/desktops/export?
start_time=2020-04-13T01:59Z&end_time=2020-04-30T02:20Z&user_name=jy01@local.com&computer_name=JY011
```

Example Responses

None

Status Codes

Status Code	Description
200	Exports the file of user login information.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.13.4 Querying the Number of Login Users

Function

Queries the number of login users. All query parameters cannot be left empty.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/connections/online-users

Table 4-1409 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-1410 Query Parameters

Parameter	Mandatory	Type	Description
start_time	No	String	Start time of the query. If this parameter is specified, all login records after the specified time are returned. An example format is 2016-08-20T21:11Z. If the end time is not empty, the start time is mandatory. Query by type takes precedence over query by time. Use either query by type or query by time.
end_time	No	String	End time of the query. If this parameter is specified, all login records before the specified time are returned. An example format is 2016-08-20T21:11Z. If the start time is not empty, the end time is mandatory. Query by type takes precedence over query by time. Use either query by type or query by time.

Parameter	Mandatory	Type	Description
query_type	No	String	Query type. Query by type takes precedence over query by time. Use either query by type or query by time. <ul style="list-style-type: none"> • MONTH: query by month • WEEK: query by week • DAY: query by day

Request Parameters

Table 4-1411 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body, for example, application/json .

Response Parameters

Status code: 200

Table 4-1412 Response body parameters

Parameter	Type	Description
time_counts	Array of strings	Returns information about previous logins. The query time and count are separated by a colon (:). If the query is performed by day or the time segment is within the same day, the query time is counted by hour. Otherwise, the query time is counted by day.

Status code: 400

Table 4-1413 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401**Table 4-1414** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-1415** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404

Table 4-1416 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 405**Table 4-1417** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-1418** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 503

Table 4-1419 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
GET v2/8dc9c40a06574a598941b254d4b63b43/connections/online-users?
start_time=2020-04-20T03:01Z&end_time=2020-04-20T10:01Z
```

```
null
```

Example Responses

Status code: 200

Response body for querying the number of login users.

```
{
  "time_counts" : [ "00:00 : 0", "01:00 : 0", "02:00 : 0", "03:00 : 0", "04:00 : 0", "05:00 : 0", "06:00 : 0", "07:00 :
0", "08:00 : 0", "09:00 : 0", "10:00 : 0" ]
}
```

Status Codes

Status Code	Description
200	Response body for querying the number of login users.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.14 Policy Group

4.14.1 Querying Policy Group Brief Information

Function

Queries brief information of a policy group, excluding policy information and application object information.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/policy-groups

Table 4-1420 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-1421 Query Parameters

Parameter	Mandatory	Type	Description
limit	No	Integer	Limits the quantity of returned policy groups in pagination query. If this parameter is not specified, all policy groups that meet the search criteria are returned. The value ranges from 0 to 100.
offset	No	Integer	Where the pagination query starts. The value ranges from 0 to 1,000.
policy_group_id	No	String	Filters results by policy group ID.
policy_group_name	No	String	Filters results by policy group name.

Parameter	Mandatory	Type	Description
priority	No	Integer	Filters results by priority. The value cannot exceed the maximum value of the existing policy group's priority.
update_time	No	String	Filters results by update time. The time format is yyyy-MM-dd HH:mm:ss.
description	No	String	Policy group description.
is_group_name_accurate	No	Boolean	Exact query by policy group name.

Request Parameters

Table 4-1422 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body, for example, application/json .

Response Parameters

Status code: 200

Table 4-1423 Response body parameters

Parameter	Type	Description
policy_groups	Array of PolicyGroupForList objects	Policy group.
total_count	Integer	Total number.

Table 4-1424 PolicyGroupForList

Parameter	Type	Description
policy_group_id	String	Policy group ID.
policy_group_name	String	Policy group name.
priority	Integer	Priority.
update_time	String	Update date.
description	String	Policy group description.
policies	Policies object	Policy class.
targets	Array of Target objects	Objects to which a policy applies.

Table 4-1425 Policies

Parameter	Type	Description
peripherals	peripherals object	Peripheral.
audio	audio object	Audio.
client	client object	Client.
display	display object	Display.
file_and_clipboard	file_and_clipboard object	Files and clipboards.
session	Session object	Sessions.
virtual_channel	VirtualChannel object	Virtual channels.
watermark	Watermark object	Watermarking.
keyboard_mouse	keyboard_mouse object	Keyboards and mouse devices.
seamless	seamless object	Audio/Video bypass.
personalized_data_mgmt	personalized_data_mgmt object	Personalized data management.
custom	custom object	Custom policy.
record_audit	record_audit object	Screen recording audit.

Table 4-1426 peripherals

Parameter	Type	Description
usb_custom_policy_debug	String	Device debugging policy.
usb_port_redirection	usb_port_redirection object	USB port redirection.
device_redirection	device_redirection object	Device redirection.
usb_device_common	usb_device_common object	USB and device smartcard options.
serial_port_redirection	serial_port_redirection object	Serial port redirection.
parallel_port_redirection	parallel_port_redirection object	Parallel port redirection.
driver_interface_redirection	driver_interface_redirection object	Driver interface redirection.

Table 4-1427 usb_port_redirection

Parameter	Type	Description
usb_enable	Boolean	Whether to enable USB port redirection. Options: false : disable; true : enable
options	options object	USB port redirection options.

Table 4-1428 options

Parameter	Type	Description
usb_image_enable	Boolean	Whether to enable image devices, such as scanners. Options: false : disable; true : enable
usb_video_enable	Boolean	Whether to enable video devices, such as cameras. Options: false : disable; true : enable

Parameter	Type	Description
usb_printer_enable	Boolean	Whether to enable print devices, such as printers. Options: false : disable; true : enable
usb_storage_enable	Boolean	Whether to enable storage devices, such as USB flash drives. Options: false : disable; true : enable
wireless_devices_enable	Boolean	Whether to enable wireless devices, such as Bluetooth. Options: false : disable; true : enable
network_devices_enable	Boolean	Whether to enable network devices, such as wireless NICs. Options: false : disable; true : enable
usb_smart_card_enable	Boolean	Whether to enable smartcard devices, such as USB keys. Options: false : disable; true : enable
other_usb_devices_enable	Boolean	Whether to enable the redirection of other USB devices. Options: false : disable; true : enable
usb_redirection_customization_policy	String	Custom policy for USB port redirection. The value contains a maximum of 18,000 characters.
usb_redirection_mode	String	USB redirection mode. Options: Classical mode Common mode

Table 4-1429 device_redirection

Parameter	Type	Description
printer_redirection	printer_redirection object	Printer redirection.
session_printer	session_printer object	Session printer.

Parameter	Type	Description
camera_redirection	camera_redirection object	Camera redirection.
twain_redirection_enable	Boolean	Whether to enable TWAIN device redirection. Options: false : disable; true : enable
image_compression_level	String	Image compression level. Options: none low (highest speed) medium (medium speed) high (lowest speed) lossless low-loss medium-loss high-loss
hid_redirection	hid_redirection object	Human interface device (HID) redirection.

Table 4-1430 printer_redirection

Parameter	Type	Description
printer_enable	Boolean	Whether to enable printer redirection. Options: false : disable; true : enable
options	options object	Printer redirection options.

Table 4-1431 options

Parameter	Type	Description
mobile_printer_enable	Boolean	Mobile client printer redirection. Options: false : disable; true : enable

Parameter	Type	Description
print_data_compression_mode	Boolean	Whether to enable data compression. Options: false : disable; true : enable
sync_client_default_printer_enable	Boolean	Whether to enable default client printer synchronization. Options: false : disable; true : enable
universal_printer_driver	String	Universal printer driver. By default, choose Universal Printing PS for Linux clients and HDP XPSDrv Driver for Windows clients. Options: HDP XPSDrv Driver ; Universal Printing PCL 5 Universal Printing PCL 6 Universal Printing PS

Table 4-1432 session_printer

Parameter	Type	Description
session_printer_enable	Boolean	Whether to enable session printers. Options: false : disable; true : enable
options	options object	Session printer options.

Table 4-1433 options

Parameter	Type	Description
session_printer_customization_policy	String	Custom session printer policy. A maximum of 1,000 characters are allowed.

Table 4-1434 camera_redirection

Parameter	Type	Description
video_compress_enable	Boolean	Whether to enable camera redirection. Options: false : disable; true : enable
options	options object	Camera redirection options.

Table 4-1435 options

Parameter	Type	Description
camera_frame_rate	Integer	Camera frame rate (FPS). The value ranges from 1 to 30. Default: 15
camera_max_width	Integer	Camera maximum width (pixel). The value ranges from 1 to 9999. Default: 3000
camera_max_height	Integer	Camera maximum height (pixel). The value ranges from 1 to 9999. Default: 3000
camera_compression_method	String	Camera data compression method. The value is H.264 .

Table 4-1436 hid_redirection

Parameter	Type	Description
hid_redirection_enable	Boolean	Whether to enable HID redirection. Options: false : disable; true : enable
options	options object	HID options.

Table 4-1437 options

Parameter	Type	Description
hid_redirection_customization_policy	String	Custom HID redirection policy.

Table 4-1438 usb_device_common

Parameter	Type	Description
pcsc_smart_card_enable	String	Whether to enable PC/SC smartcard redirection. Options: Enable: enabled Closed: closed Disable: disabled
common_options	common_options object	Options for both USB devices and device smartcards.

Table 4-1439 common_options

Parameter	Type	Description
remove_smart_card_disconnect_enable	Boolean	Whether to enable smartcard removal to log out of user sessions. Options: false: disable; true: enable

Table 4-1440 serial_port_redirection

Parameter	Type	Description
serial_port_enable	Boolean	Whether to enable serial port redirection. Options: false: disable; true: enable
options	options object	Serial port redirection options.

Table 4-1441 options

Parameter	Type	Description
auto_connect_enable	Boolean	Whether to enable automatic connection to client serial ports. Options: false: disable; true: enable

Table 4-1442 parallel_port_redirection

Parameter	Type	Description
parallel_port_enable	Boolean	Whether to enable parallel port redirection. Options: false : disable; true : enable

Table 4-1443 driver_interface_redirection

Parameter	Type	Description
api_redir_driver_list	String	Custom drivers. Enter one or more driver file names or full paths of driver files installed on terminals. Separate file names or paths with semicolons (;). A maximum of 1,000 characters are allowed.

Table 4-1444 audio

Parameter	Type	Description
audio_redirection_enable	Boolean	Whether to enable audio redirection. Options: false : disable; true : enable
play_volume	String	Playback volume. If this parameter is not specified, the value is Do Not Set Volume . Volume setting. The value ranges from 10 to 100, and the interval between two adjacent values is 5 in ascending order, for example, 10, 15, 20, and 25.
play_volume_ratio	String	Playback volume ratio. Options: If this parameter is not specified, the value is Do Not Set Volume Ratio . Low Middle : medium High

Parameter	Type	Description
record_volume	String	Recording volume. If this parameter is not specified, the value is Do Not Set Volume . Volume setting. The value ranges from 10 to 100, and the interval between two adjacent values is 5 in ascending order, for example, 10, 15, 20, and 25.
record_volume_ratio	String	Recording volume ratio. Options: If this parameter is not specified, the value is Do Not Set Volume Ratio . Low Middle : medium High
audio_transmission_mode	String	Audio transmission mode. Options: Reliable Transmission Real Time Transmission
play_redirection_enable	Boolean	Whether to enable playback redirection. Options: false : disable; true : enable
play_classification	String	Playback scenario. Options: Lossless Speech Call Music Play Automatic Identification
play_quality	String	Playback quality. Options: Low Middle : medium High
play_denoising	String	Playback denoising. Options: Disabled. Enabled: The value ranges from -100 to -5, and the interval between two adjacent values is 5 in ascending order, for example, -100, -95, -90, and -85.

Parameter	Type	Description
play_agc	String	Playback AGC. Options: Disabled. Enabled: The value ranges from 4,000 to 32,000. From 10,000 on, the interval between two adjacent values is 1,000 in ascending order, for example, 4,000, 6,000, 8,000, 10,000, 11,000, 12,000 and 13,000.
play_crc	String	Playback CRC. Options: Disable CRC Enable CRC
play_device_mode	String	Playback device mode. Options: Play Device In Shared Mode Play Device In Exclusive Mode
play_delay_threshold	String	Playback delay threshold. The value ranges from 160 to 2,500. The values less than 400 are in ascending order with an interval of 40, and the values between 400 and 1,000 are in ascending order with an interval of 50. For example, the values can be as follows: 2,500, 2,000, 1,800, 1,500, 1,200, 1,000, 950, 900, 850.
play_amplitude_threshold	String	Playback amplitude threshold. The values can be: 2,048, 4,096, 5,120, 6,144, 7,168, 8,192.
play_prefill_data	String	Playback prefill data. Options: Do Not Prefill Data ; Prefill Data : The value ranges from 50 to 2,000. The values less than 250 are in an ascending order with an interval of 50, and the values between 250 and 500 are in an ascending order with an interval of 100. For example, the values can be as follows: 2,000, 1,500, 1,000, 500, 400, 300, 250.
record_redirection_enable	Boolean	Whether to enable recording redirection. Options: false : disable; true : enable

Parameter	Type	Description
record_classification	String	Recording scenario. Options: Lossless Speech Call Music Record Automatic Identification
record_quality	String	Recording quality. Options: Low Middle : medium High
record_denoising	String	Recording denoising. Options: Disabled. Enabled: The value ranges from -100 to -5, and the interval between two adjacent values is 5 in ascending order, for example, -100, -95, -90, and -85.
record_agc	String	Recording AGC. Options: Disabled. Enabled: The value ranges from 4,000 to 32,000. From 10,000 on, the interval between two adjacent values is 1,000 in ascending order, for example, 4,000, 6,000, 8,000, 10,000, 11,000, 12,000 and 13,000.
record_crc	String	Recording CRC. Options: Disable CRC Enable CRC
record_device_mode	String	Recording device mode. Options: Record Device In Shared Mode Record Device In Exclusive Mode
record_delay_threshold	String	Recording delay threshold. The value ranges from 160 to 2,500. The values less than 400 are in ascending order with an interval of 40, and the values between 400 and 1,000 are in ascending order with an interval of 50. For example, the values can be as follows: 2,500, 2,000, 1,800, 1,500, 1,200, 1,000, 950, 900, 850.
record_amplitude_threshold	String	Recording amplitude threshold. The values can be: 2,048, 4,096, 5,120, 6,144, 7,168, 8,192.

Table 4-1445 client

Parameter	Type	Description
automatic_reconnection_interval	Integer	Automatic reconnection interval, in second. The value ranges from 1 to 50. Default: 5
session_persistence_time	Integer	Session persistence duration, in second. The value ranges from 0 to 180. Default: 180
autoclose_monitor_after_locked	Boolean	Automatic monitor shutdown after screen locking. Options: false : disable; true : enable
autoclose_monitor_options	autoclose_monitor_options object	Options for automatic monitor shutdown.
forbid_screen_capture	Boolean	Whether to enable screen capture prevention. Options: false : disable; true : enable
client_machine_join_domain	Boolean	Whether to verify the domain of a terminal. false : disable; true : enable
client_type	client_type object	Terminal type login control.

Table 4-1446 autoclose_monitor_options

Parameter	Type	Description
autoclose_monitor_wait_time	Integer	Time before automatic monitor shutdown, in second. The value ranges from 10 to 600,000. Default: 300

Table 4-1447 client_type

Parameter	Type	Description
client_type_limit	Boolean	Whether to enable terminal type login control. false : disable; true : enable

Parameter	Type	Description
options	options object	Options for terminal type login control.

Table 4-1448 options

Parameter	Type	Description
sc_type_window	Boolean	Whether to select the Windows client. Options: false : not selected true : selected
sc_type_mac	Boolean	Whether to select the macOS client. Options: false : not selected true : selected
sc_type_android	Boolean	Whether to select the Android client. Options: false : not selected true : selected
sc_type_linux	Boolean	Whether to select the Linux client. Options: false : not selected true : selected
sc_type_h5	Boolean	Whether to select the web client. Options: false : not selected true : selected
sc_type_ios	Boolean	Whether to select the iOS client. Options: false : not selected true : selected
sc_type_harmony_os	Boolean	Whether to select the HarmonyOS client. Options: false : not selected true : selected
tc_type_all	Boolean	Whether to select all hardware terminals. Options: false : not selected true : selected

Table 4-1449 display

Parameter	Type	Description
display_level	String	Display level. Options: LEVEL 1 LEVEL 2 LEVEL 3 LEVEL 4 (default/recommended) LEVEL 5
options	options object	Display level options.
rendering_acceleration_enable	Boolean	Whether to enable rendering acceleration. Options: false : disable; true : enable
rendering_acceleration_options	rendering_acceleration_options object	Rendering acceleration options.
adaptive_bitrate_control_enable	Boolean	Whether to enable adaptive bitrate. Options: false : disable; true : enable
adaptive_bitrate_control_options	adaptive_bitrate_control_options object	Adaptive bitrate options.
video_card_memory_size	Integer	GPU card cache (MB). The value ranges from 0 to 64. Default: 64
configuration1_enable	Boolean	Whether to enable configuration item 1. Options: false : disable; true : enable
driver_delegation_mode_enable	Boolean	Whether to enable driver delegation. Options: false : disable; true : enable
driver_delegation_latency	Integer	Driver delegation latency (x 30 ms). The value ranges from 1 to 100. Default: 80
video_latency	Integer	Driver delegation video latency (x 30 ms). The value ranges from 1 to 100. Default: 80

Parameter	Type	Description
change_resolution_vm	Boolean	Whether to enable resolution change. Options: false : disable; true : enable
application_recognition	String	Application recognition. A maximum of 1,024 characters are allowed.
duplicate_display_enable	Boolean	Duplicate display. Options: false : disable; true : enable
default_mapping_order	String	Default screen mapping sequence. Default: 1, 2, 3, 4
duplicate_display_mode	String	Duplicate display mode. Options: One-to-One : Only one channel is supported. One-to-Many : Multiple channels are supported.

Table 4-1450 options

Parameter	Type	Description
display_bandwidth	Integer	Bandwidth (kbit/s). The value ranges from 256 to 25,000. Default: 20,000
frame_rate	Integer	Frame rate (FPS). The value ranges from 1 to 60. Default: 25
video_frame_rate	Integer	Video frame rate (FPS). The value ranges from 1 to 60. Default: 30
min_image_cache	Integer	Minimum capacity for image cache (MB). The value ranges from 0 to 300. Default: 200
smoothing_factor	Integer	Lossy compression recognition threshold. The value ranges from 0 to 255. Default: 60
lossless_compression_mode	String	Lossless compression. Options: Basic Compression Deep Compression
deep_compression_options	deep_compression_options object	Deep compression options.

Parameter	Type	Description
lossy_compression_quality	Integer	Lossy compression quality. The value ranges from 20 to 100. Default: 85
color_enhancement_enable	Boolean	Whether to enable color enhancement for office work. Options: false : disable; true : enable
quality_bandwidth_first	String	Quality/Bandwidth first. Options: Quality First Bandwidth First
video_bit_rate_options	video_bit_rate_options object	Video bitrate options.
peak_video_bit_rate	Integer	Peak video bitrate (kbit/s). The value ranges from 256 to 100,000. Default: 18,000
video_quality_options	video_quality_options object	Video quality options.
gop_size	Integer	GOP size. The value ranges from 0 to 65535. Default: 100
encoding_preset	String	Encoding preset. Options: Preset 1 Preset 2 Preset 3 Preset 4 Preset 5 Preset 6 Preset 7

Table 4-1451 deep_compression_options

Parameter	Type	Description
deep_compression_level	String	Deep compression level. Options: Compression grade 0 Compression grade 1 Compression grade 2 Compression grade 3 Compression grade 4 Compression grade 5 Compression grade 6 Compression grade 7 Compression grade 8 Compression grade 9

Table 4-1452 video_bit_rate_options

Parameter	Type	Description
average_video_bit_rate	Integer	Average video bitrate (kbit/s). The value ranges from 256 to 100,000. Default: 18,000

Table 4-1453 video_quality_options

Parameter	Type	Description
average_video_quality	Integer	Average video quality. The value ranges from 5 to 59. Default: 15
lowest_video_quality	Integer	Lowest video quality. The value ranges from 5 to 69. Default: 25
highest_video_quality	Integer	Highest video quality. The value ranges from 1 to 59. Default: 7

Table 4-1454 rendering_acceleration_options

Parameter	Type	Description
video_acceleration_enhancement_enable	Boolean	Whether to enable video acceleration enhancement. Options: false : disable; true : enable

Parameter	Type	Description
video_optimization_enable	Boolean	Whether to enable video scene optimization. Options: false : disable; true : enable
gpu_color_optimization_enable	Boolean	Whether to enable GPU color optimization. Options: false : disable; true : enable
video_recognition_threshold	Integer	Video recognition threshold. The value ranges from 0 to 500. Default: 10
frame_rate_statistical_length	Integer	Frame rate statistical length. The value ranges from 2 to 100. Default: 4
image_quality_threshold	Integer	Image quality threshold. The value ranges from 0 to 100. Default: 0
refresh_frequency_threshold	Integer	Refresh frequency threshold. The value ranges from 1 to 100. Default: 3
exiting_video_area_threshold	Integer	Threshold of exiting the video area. The value ranges from 0 to 100. Default: 8
min_video_width	Integer	Minimum video width. The value ranges from 0 to 1,280. Default: 191
min_video_length	Integer	Minimum video height. The value ranges from 0 to 1,280. Default: 191
single_frame_natural_percentage	String	Threshold of the single-frame natural image block percentage. The value ranges from 0.000001 to 1. Default: 0.3
cyclical_natural_images_number	Integer	Threshold of cyclical natural image quantity percentage. The value ranges from 0 to 100. Default: 2
non_natural_image_percentage	String	Threshold of the non-natural image area percentage. The value ranges from 0.000001 to 1. Default: 0.85
non_natural_images_number	Integer	Threshold of non-natural image quantity percentage. The value ranges from 0 to 100. Default: 25

Table 4-1455 adaptive_bitrate_control_options

Parameter	Type	Description
peak_bandwidth_suppression_enable	Boolean	Whether to enable peak bandwidth suppression. Options: false : disable; true : enable
expected_average_network_latency	Integer	Expected average network latency, in millisecond. The value ranges from 1 to 2,000. Default: 160
network_latency_threshold1	Integer	Network latency threshold 1 (ms). The value ranges from 1 to 2,000. Default: 160
network_latency_threshold2	Integer	Network latency threshold 2 (ms). The value ranges from 1 to 2,000. Default: 300
min_dynamic_frame_rate	Integer	Minimum dynamic frame rate (FPS). The value ranges from 1 to 60. Default: 17
min_dynamic_frame_rate_lv1	Integer	Minimum dynamic frame rate level 1 (FPS). The value ranges from 1 to 60. Default: 17
min_dynamic_frame_rate_lv2	Integer	Minimum dynamic frame rate level 2 (FPS). The value ranges from 1 to 60. Default: 10
rtt_threshold	Integer	Frame rate control parameter 1. The value ranges from 0 to 1,000. Default: 20
min_add_framerate	Integer	Frame rate control parameter 2. The value ranges from 0 to 120. Default: 8
max_add_framerate	Integer	Frame rate control parameter 3. The value ranges from 0 to 120. Default: 20
sub_framerate	Integer	Frame rate control parameter 4. The value ranges from 0 to 120. Default: 25
adaptive_bandwidth_lower_limit	Integer	Adaptive bandwidth lower limit, in kbit/s. The value ranges from 100 to 20,000. Default: 500
adaptive_compression_quality_lower_limit	Integer	Lower limit of adaptive lossy compression quality. The value ranges from 1 to 100. Default: 60

Parameter	Type	Description
adaptive_compression_quality_upper_limit	Integer	Upper limit of adaptive lossy compression quality. The value ranges from 1 to 100. Default: 85
adaptive_compression_quality_increase_limit	Integer	Increase limit of adaptive lossy compression quality. The value ranges from 1 to 100. Default: 5
adaptive_compression_quality_decrease_limit	Integer	Decrease limit of adaptive lossy compression quality. The value ranges from 1 to 100. Default: 10
adaptive_average_quality_lower_limit	Integer	Lower limit of adaptive average video quality. The value ranges from 5 to 50. Default: 15
adaptive_average_quality_upper_limit	Integer	Upper limit of adaptive average video quality. The value ranges from 5 to 50. Default: 25
adaptive_average_quality_increase_limit	Integer	Increase limit of adaptive average video quality. The value ranges from 1 to 50. Default: 3
adaptive_average_quality_decrease_limit	Integer	Decrease limit of adaptive average video quality. The value ranges from 1 to 50. Default: 1
adaptive_min_quality_lower_limit	Integer	Lower limit of adaptive minimum video quality. The value ranges from 5 to 69. Default: 25
adaptive_min_quality_upper_limit	Integer	Upper limit of adaptive minimum video quality. The value ranges from 5 to 69. Default: 30
adaptive_min_quality_increase_limit	Integer	Increase limit of adaptive minimum video quality. The value ranges from 1 to 50. Default: 3
adaptive_min_quality_decrease_limit	Integer	Decrease limit of adaptive minimum video quality. The value ranges from 1 to 50. Default: 1

Table 4-1456 file_and_clipboard

Parameter	Type	Description
file_redirection	file_redirection object	File redirection.

Parameter	Type	Description
clip_length_limit_f lag_c2s	Boolean	Clipboard length.
clip_length_limit_c 2s	Integer	Client clipboard length.
clip_length_limit_f lag_s2c	Boolean	Clipboard length.
clip_length_limit_s 2c	Integer	Client clipboard length.
fd_mobile_client_r edir_enable	Boolean	Whether to enable mobile client file redirection. Options: false : disable; true : enable
clipboard_redirecti on	String	Clipboard redirection. Options: DISABLED (default) SERVER_TO_CLIENT_ENABLED (from the server to the client) CLIENT_TO_SERVER_ENABLED (from the client to the server) TWO_WAY_ENABLED (two-way)
clipboard_redirecti on_options	clipboard_redirec tion_options object	Clipboard redirection options.

Table 4-1457 file_redirection

Parameter	Type	Description
redirection_mode	String	File redirection. Options: DISABLED (default) READ_ONLY READ_AND_WRITE
options	options object	File redirection options.
vm_send_file_clien t	Boolean	Whether to enable the function of sending files from the VM to the client. Options: false : disable; true : enable
redirection_send_f ile_options	redirection_send_f ile_options object	Options for both redirection and file sending.

Table 4-1458 options

Parameter	Type	Description
fluid_control_switch_enable	Boolean	Whether to enable rate limit. Options: false : disable; true : enable
fluid_control_options	fluid_control_options object	Rate limit options.
compression_switch_enable	Boolean	Whether to enable compression. Options: false : disable; true : enable
compression_switch_options	compression_switch_options object	Compression options.
linux_file_size_supported_enable	Boolean	Whether to enable the function of setting the file size in Linux. Options: false : disable; true : enable
linux_file_size_supported_options	linux_file_size_supported_options object	Options for setting the file size in Linux.
linux_root_mount_switch_enable	Boolean	Whether to enable root directory mount in Linux. Options: false : disable; true : enable
linux_root_dir_list	String	Mount path of the Linux root directory. Default: \var\log
linux_file_mount_path	String	Mount path of the Linux file system. Default: \media\Volumes\swdb\mnt\home\storage\tmp\run\media
linux_fixed_drive_file_system_format	String	Linux fixed driver file system format.
linux_removable_drive_file_system_format	String	Linux removable driver file system format. Default: vfat ntfs msdos fuseblk sdcardfs exfat fuse.fdir lifs
linux_cdrom_drive_file_system_format	String	Linux CD-ROM driver file system format. Default: cd9660 iso9660 udf

Parameter	Type	Description
linux_network_drive_file_system_format	String	Linux network driver file system format. Default: smbfs afpfs cifs
path_separator	String	Path separator. Default:
fixed_drive_enable	Boolean	Whether to enable fixed drivers (such as local disks). Options: false : disable; true : enable
removable_drive_enable	Boolean	Whether to enable removable drivers (such as USB flash drives). Options: false : disable; true : enable
cd_rom_drive_enable	Boolean	Whether to enable CD-ROM drivers. Options: false : disable; true : enable
network_drive_enable	Boolean	Whether to enable network drivers. Options: false : disable; true : enable

Table 4-1459 fluid_control_options

Parameter	Type	Description
good_network_latency	Integer	Good network latency threshold (ms). The value ranges from 1 to 1,000. Default: 30
normal_network_latency	Integer	Normal network latency threshold (ms). The value ranges from 1 to 1,000. Default: 70
poor_network_latency	Integer	Poor network latency threshold (ms). The value ranges from 1 to 1,000. Default: 100
reducing_step	Integer	Reducing step (KB). The value ranges from 1 to 100. Default: 20
slow_increasing_step	Integer	Slow increasing step (KB). The value ranges from 1 to 100. Default: 10

Parameter	Type	Description
quick_increasing_step	Integer	Quick increasing step (KB). The value ranges from 1 to 100. Default: 20
start_speed	Integer	Initial transmission speed (KB/s). The value ranges from 1 to 10,240. Default: 1,024
test_block_size	Integer	Speed test block size (KB). The value ranges from 64 to 1,024. Default: 64
test_time_gap	Integer	Speed test block interval (ms). The value ranges from 1,000 to 100,000. Default: 10,000

Table 4-1460 compression_switch_options

Parameter	Type	Description
compression_threshold	Integer	Compression threshold (byte). The value ranges from 0 to 10,240. Default: 512
minimum_compression_rate	Integer	Minimum compression rate. The value ranges from 0 to 1,000. Default: 900

Table 4-1461 linux_file_size_supported_options

Parameter	Type	Description
linux_file_size_supported_threshold	Integer	File size threshold in Linux (byte). The value ranges from 0 to 4,096. Default: 100

Table 4-1462 redirection_send_file_options

Parameter	Type	Description
read_write_speed	Integer	Read/Write speed (kbit/s). The value ranges from 0 to 2147483647. Default: 0

Table 4-1463 clipboard_redirection_options

Parameter	Type	Description
rich_text_redirection_enable	Boolean	Whether to enable clipboard rich text redirection. Options: false : disable; true : enable
clipboard_file_redirection_enable	Boolean	Whether to enable clipboard file redirection. Options: false : disable; true : enable

Table 4-1464 Session

Parameter	Type	Description
vdi	Vdi object	VDI.
self_help_console	Boolean	Whether to enable preemption login to the self-help console. Options: false : disable; true : enable
disconnect_on_lock_flag	Boolean	Whether to disconnect after the screen is locked.
auto_lock_start_time	String	Start time when the lock takes effect. The format is hh:mm:ss.
auto_lock_end_time	String	Start time when the lock takes effect. The format is hh:mm:ss.

Table 4-1465 Vdi

Parameter	Type	Description
auto_lock_enable	Boolean	Whether to enable automatic screen locking. Options: false : disable; true : enable
auto_lock_options	AutoLockOptions object	Options available after automatic screen locking is enabled.
disconnect_logout_enable	Integer	Whether to enable automatic logout upon disconnection. Options: 0 : disable; 1 : enable
disconnect_logout_options	DisconnectLogoutOptions object	Options available after automatic logout upon disconnection is enabled.

Parameter	Type	Description
disconnect_hibernate_enable	Boolean	Whether to enable automatic logout upon disconnection. Options: 0 : disable; 1 : enable
disconnect_hibernate_options	disconnect_hibernate_options object	Options for hibernation upon disconnection.
no_operation_hibernate_enable	Boolean	Whether to enable automatic logout upon disconnection. Options: 0 : disable; 1 : enable
no_operation_hibernate_options	no_operation_hibernate_options object	Do not select the hibernation option.

Table 4-1466 AutoLockOptions

Parameter	Type	Description
auto_lock_minutes	Integer	Time before screen locking, in minute. The value ranges from 3 to 86,400. Default: 10
auto_disconnect	String	Automatic disconnection or logout. Options: AUTO_DISCONNECT (automatic disconnection); AUTO_LOGOUT (automatic logout); DISABLED (disabled); AUTO_RESTART (default, automatic restart); AUTO_STOP (automatic shutdown); HIBERNATE (hibernation)
options	AutoDisconnectOrLogoutControlOptions object	Options available after automatic disconnection or automatic logout is enabled.

Table 4-1467 AutoDisconnectOrLogoutControlOptions

Parameter	Type	Description
auto_disconnect_minutes	Integer	Time before disconnection or logout, in minute. The value ranges from 1 to 86,400. Default: 1,440

Table 4-1468 DisconnectLogoutOptions

Parameter	Type	Description
disconnect_logout_minutes	Integer	Time before automatic logout upon disconnection, in minute. The value ranges from 3 to 86,400. Default: 10

Table 4-1469 disconnect_hibernate_options

Parameter	Type	Description
disconnect_hibernate_minutes	Integer	Hibernation duration upon disconnection.

Table 4-1470 no_operation_hibernate_options

Parameter	Type	Description
no_operation_hibernate_minutes	Integer	Policy group ID.

Table 4-1471 VirtualChannel

Parameter	Type	Description
virtual_channel_control_enable	Boolean	Whether to enable the virtual channel policy. Options: false : disable; true : enable
options	VirtualChannelOptions object	Virtual channel policy options.

Table 4-1472 VirtualChannelOptions

Parameter	Type	Description
custom_virtual_channel_name	String	Custom registered virtual channel name. Currently, only ASCII characters are supported. The value can contain a maximum of 65,535 characters.
virtual_channel_plugin_details	String	Virtual channel download details (Base64-encoded). Before encryption, only ASCII characters are supported. The value can contain a maximum of 65,535 characters.

Parameter	Type	Description
third_party_plugin_name	String	Third-party plug-in name. The value can contain a maximum of 65,535 characters.

Table 4-1473 Watermark

Parameter	Type	Description
watermark_enable	Boolean	Indicates whether to enable the watermark policy. Options: false : disable; true : enable
options	WatermarkOptions object	Watermark policy options.

Table 4-1474 WatermarkOptions

Parameter	Type	Description
show_style	String	Display mode. Options: FIXED (fixed position); RANDOM (random motion)
color	String	Color. Format: RRGGBB . Default: 2a2a2a
font_size	Integer	Font size. The value ranges from 1 to 200. Default: 30
opacity_setting	String	Opacity (%). The value ranges from 0 to 100. Default: 12.5
content_item_count	Integer	Number of watermarks. The value ranges from 1 to 30. Default: 1
display_format	String	Watermark content display format.
lean	Integer	Tilt. The value ranges from -90 to 90. Default: -45
content_customized	String	Custom content, which cannot contain special characters such as >.
content_color	String	Content color.
watermark_security_access	Boolean	Whether to enable the security-first mode.
user_extend_info_switch	Boolean	Whether to enable extended user information. false : disable; true : enable

Parameter	Type	Description
user_extend_info	String	Extended user information.

Table 4-1475 keyboard_mouse

Parameter	Type	Description
mouse_feedback	String	VM mouse device feedback. Options: SELFADAPTION : adaptive mouse device feedback FORCE : forcible mouse device feedback CLOSE : no mouse device feedback
mouse_simulation_mode	String	VM mouse device simulation mode. Options: ABSOLUTE_POSITION : absolute position simulation RELATIVE_POSITION : relative position simulation
external_cursor_feedback	Boolean	Whether to enable VM external cursor feedback. Options: false : disable; true : enable
selfhelp_console_enable	Boolean	Whether to enable preemption login to the self-help console. Options: false : disable; true : enable
client_mouse_send_interval	Integer	Interval for sending mouse device operations on the client. The value ranges from 1 to 30. Default: 30
windows_client_keyboard_mode	String	Windows client keyboard mode. Options: GLOBAL : global mode for Windows client keyboards (default) WINDOW : windowed mode for for Windows client keyboards

Parameter	Type	Description
windows_client_mouse_mode	String	Windows client mouse device mode. Options: GLOBAL : global mode for Windows client mouse devices WINDOW : windowed mode for Windows client mouse devices (default)
linux_client_keyboard_mode	String	Linux client keyboard mode. Options: EVENT : event mode for Linux client keyboards (default) GRAPH : graphics mode for Linux client keyboards
linux_client_mouse_mode	String	Linux client mouse device mode. Options: EVENT : event mode for Linux client mouse devices (default) GRAPH : graphics mode for Linux client mouse devices
special_keyboard	Boolean	Special keyboard. Options: false : disable; true : enable
joy_stick_flag	Boolean	Joystick. Options: false : disable; true : enable

Table 4-1476 seamless

Parameter	Type	Description
seamless_enable	Boolean	Whether to enable audio/video bypass. Options: false : disable; true : enable
options	options object	General audio/video settings.

Table 4-1477 options

Parameter	Type	Description
seamless_apply_path	String	Software path. A maximum of 1,000 characters are allowed.

Table 4-1478 personalized_data_mgmt

Parameter	Type	Description
personalized_data_mgmt_path	String	Personalized data management path.
user_data_roaming_enable	Boolean	User data roaming.
user_data_roaming_options	user_data_roaming_options object	User data roaming options.
user_folder_redirection_enable	Boolean	Enables user folder redirection.
user_folder_redirection_options	user_folder_redirection_options object	User folder redirection options.
logoff_delete_user_configuration	Boolean	Enables user folder redirection.
network_drive_mapping_enable	Boolean	Enables user folder redirection.
network_drive_mapping_options	network_drive_mapping_options object	Network driver mapping options.

Table 4-1479 user_data_roaming_options

Parameter	Type	Description
profile_streaming_enable	Boolean	Whether to enable profile streaming.
roamed_files_local_path	String	Local path of roamed files.
exclude_folders_path	String	Path of an excluded folder.
roaming_registry_method	String	Path of an excluded folder.

Parameter	Type	Description
roaming_registry_path	String	Path of roaming registration.

Table 4-1480 user_folder_redirection_options

Parameter	Type	Description
restore_local_directories_enable	Boolean	Enables the restoration of local directories.
appData_roaming_enable	Boolean	Enables application data roaming.
redirec_desktop	Boolean	Desktop redirection.
redirec_start_menu	Boolean	Start menu.
redirec_documents	Boolean	Document.
redirec_pictures	Boolean	Photo.
redirec_music	Boolean	Music.
redirec_videos	Boolean	Audio recording.
redirec_favorites	Boolean	Favorite.
redirec_contacts	Boolean	Audio recording.
redirec_downloads	Boolean	Download.
redirec_links	Boolean	Link
redirec_searches	Boolean	Search.
redirec_saved_games	Boolean	Game storage.

Table 4-1481 network_drive_mapping_options

Parameter	Type	Description
network_drive_mapping_path	String	Network drive mapping path.
drive_letter	String	Path of an excluded folder.

Table 4-1482 custom

Parameter	Type	Description
custom_configuration1_enable	Boolean	Whether to enable custom configuration.
options	options object	General audio/video settings.

Table 4-1483 options

Parameter	Type	Description
custom_configuration1_rule	String	Custom configuration rule.

Table 4-1484 record_audit

Parameter	Type	Description
enable	Boolean	Whether to enable screen recording audit. Options: false : disable; true : enable
rules	rules object	Screen recording rules.
storage_type	String	Storage type. Options: OBS : OBS bucket SFTP : SFTP interconnection
obs_bucket_source	String	OBS bucket source. Options: AUTO_CREATE : automatically created CREATED : created
obs_bucket_name	String	OBS bucket name
retention_duration	Integer	Retention period of a screen recording file, in days. The value ranges from 1 to 180. 0 indicates that the file is retained permanently.

Table 4-1485 rules

Parameter	Type	Description
rule	RecordAuditRule object	Rule.

Table 4-1486 RecordAuditRule

Parameter	Type	Description
record_type	String	Recording type. Options: whole : continuous screen recording interval : interval screen recording userOperations : screen recording by users sessionMonitoring : screen recording of the session lifecycle
interval_record_start_time	String	Start time of interval-based screen recording. This parameter is valid only when interval is used. The format is hh:mm.
interval_record_end_time	String	End time of interval-based screen recording. This parameter is valid only when interval is used. The format is hh:mm.
op_type	String	Operation triggering type. This parameter is valid only when userOperations is used. Options: input : Screen recording is started once the user enters content. filecopy : Screen recording is started once the user copies a file.
audio_record	Boolean	Whether to enable audio recording. Options: false : disable; true : enable
fps	String	Recording frame rate. The value can be 2, 5, 10, or 15 .
duration	String	Duration of a single video recording file, in minutes. The value can be 10, 20, 30, or 60 .
resolution	String	Resolution settings. The value can be 720P, 1080P, or original .
event_enable	Boolean	Whether to enable key event audit. Options: false : disabled true : enabled
file_suffix	String	File name extension. Use vertical bars () to separate multiple file name extensions.

Parameter	Type	Description
regit_paths	String	Registry path. Use vertical bars () to separate multiple registry paths.
app_filter_type	String	Application filtering type. The value can be black (blacklist) or white (whitelist).
app_white_list	String	Enables or disables the application whitelist. If it is enabled, only the whitelisted applications are monitored.
app_black_list	String	Enables or disables the application blacklist. Blacklisted applications will be ignored.

Table 4-1487 Target

Parameter	Type	Description
target_id	String	Object ID.
target_name	String	Object name. The value can contain a maximum of 55 characters.

Parameter	Type	Description
target_type	String	Object type. <ul style="list-style-type: none"> • INSTANCE: desktops • target_id: desktop SIDs • target_name: desktop names • USER: users • target_id: user IDs • target_name: usernames • USERGROUP: user groups • target_id: user group IDs • target_name: user group names • CLIENTIP: terminal IP addresses • target_id: terminal IP addresses • target_name: terminal IP addresses • OU: organization units • target_id: OU IDs • target_name: OU names • DESKTOPSPOOL: desktop pools • target_id: desktop pool IDs • target_name: desktop pool names • ALL: all desktops • target_id: default-apply-all-targets • target_name: All-Targets

Status code: 400**Table 4-1488** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401

Table 4-1489 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-1490** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-1491** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 405

Table 4-1492 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-1493** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 503**Table 4-1494** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
GET /v2/089b2f9a3d80d3062f24c00ca4ed5cbd/policy-groups
```

Example Responses

Status code: 200

Response to policy group information query.

```
{
  "total_count": 2,
  "policy_groups": [ {
    "priority": 1,
    "description": "Policy group description 1.",
    "policy_group_id": "8ac225c2781f230a01781f29b2e7xxxx",
    "policy_group_name": "Policy group 1",
    "update_time": "2021-03-12 12:02:01"
  }, {
    "priority": 2,
    "description": "Policy group description 2.",
    "policy_group_id": "8ac225c2781edb0d01781edde3f4xxxx",
    "policy_group_name": "Policy group 2",
    "update_time": "2021-03-12 09:06:44"
  } ]
}
```

Status Codes

Status Code	Description
200	Response to policy group information query.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.14.2 Adding a Policy Group

Function

Adds a policy group.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2/{project_id}/policy-groups

Table 4-1495 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-1496 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body, for example, application/json .

Table 4-1497 Request body parameters

Parameter	Mandatory	Type	Description
policy_group	Yes	PolicyGroupForCreate object	Policy group information.

Table 4-1498 PolicyGroupForCreate

Parameter	Mandatory	Type	Description
policy_group_id	No	String	Policy group ID.
policy_group_name	No	String	Policy group name, which contains a maximum of 255 characters, including digits, letters, and underscores (_).
priority	No	Integer	Priority.

Parameter	Mandatory	Type	Description
description	No	String	Policy group description, which contains a maximum of 255 characters.
update_time	No	String	Update time.
targets	No	Array of Target objects	Objects to which a policy applies.
policies	No	Policies object	Policy.

Table 4-1499 Target

Parameter	Mandatory	Type	Description
target_id	No	String	Object ID.
target_name	No	String	Object name. The value can contain a maximum of 55 characters.

Parameter	Mandatory	Type	Description
target_type	No	String	Object type. <ul style="list-style-type: none"> ● INSTANCE: desktops ● target_id: desktop SIDs ● target_name: desktop names ● USER: users ● target_id: user IDs ● target_name: usernames ● USERGROUP: user groups ● target_id: user group IDs ● target_name: user group names ● CLIENTIP: terminal IP addresses ● target_id: terminal IP addresses ● target_name: terminal IP addresses ● OU: organization units ● target_id: OU IDs ● target_name: OU names ● DESKTOPPOOL: desktop pools ● target_id: desktop pool IDs ● target_name: desktop pool names ● ALL: all desktops ● target_id: default-apply-all-targets ● target_name: All-Targets

Table 4-1500 Policies

Parameter	Mandatory	Type	Description
peripherals	No	peripherals object	Peripheral.
audio	No	audio object	Audio.
client	No	client object	Client.
display	No	display object	Display.

Parameter	Mandatory	Type	Description
file_and_clipboard	No	file_and_clipboard object	Files and clipboards.
session	No	Session object	Sessions.
virtual_channel	No	VirtualChannel object	Virtual channels.
watermark	No	Watermark object	Watermarking.
keyboard_mouse	No	keyboard_mouse object	Keyboards and mouse devices.
seamless	No	seamless object	Audio/Video bypass.
personalized_data_mgmt	No	personalized_data_mgmt object	Personalized data management.
custom	No	custom object	Custom policy.
record_audit	No	record_audit object	Screen recording audit.

Table 4-1501 peripherals

Parameter	Mandatory	Type	Description
usb_custom_policy_debug	No	String	Device debugging policy.
usb_port_redirection	No	usb_port_redirection object	USB port redirection.
device_redirection	No	device_redirection object	Device redirection.
usb_device_common	No	usb_device_common object	USB and device smartcard options.
serial_port_redirection	No	serial_port_redirection object	Serial port redirection.
parallel_port_redirection	No	parallel_port_redirection object	Parallel port redirection.

Parameter	Mandatory	Type	Description
driver_interface_redirection	No	driver_interface_redirection object	Driver interface redirection.

Table 4-1502 usb_port_redirection

Parameter	Mandatory	Type	Description
usb_enable	No	Boolean	Whether to enable USB port redirection. Options: false : disable; true : enable
options	No	options object	USB port redirection options.

Table 4-1503 options

Parameter	Mandatory	Type	Description
usb_image_enable	No	Boolean	Whether to enable image devices, such as scanners. Options: false : disable; true : enable
usb_video_enable	No	Boolean	Whether to enable video devices, such as cameras. Options: false : disable; true : enable
usb_printer_enable	No	Boolean	Whether to enable print devices, such as printers. Options: false : disable; true : enable
usb_storage_enable	No	Boolean	Whether to enable storage devices, such as USB flash drives. Options: false : disable; true : enable

Parameter	Mandatory	Type	Description
wireless_devices_enable	No	Boolean	Whether to enable wireless devices, such as Bluetooth. Options: false : disable; true : enable
network_devices_enable	No	Boolean	Whether to enable network devices, such as wireless NICs. Options: false : disable; true : enable
usb_smart_card_enable	No	Boolean	Whether to enable smartcard devices, such as USB keys. Options: false : disable; true : enable
other_usb_devices_enable	No	Boolean	Whether to enable the redirection of other USB devices. Options: false : disable; true : enable
usb_redirection_customization_policy	No	String	Custom policy for USB port redirection. The value contains a maximum of 18,000 characters.
usb_redirection_mode	No	String	USB redirection mode. Options: Classical mode Common mode

Table 4-1504 device_redirection

Parameter	Mandatory	Type	Description
printer_redirection	No	printer_redirection object	Printer redirection.
session_printer	No	session_printer object	Session printer.
camera_redirection	No	camera_redirection object	Camera redirection.

Parameter	Mandatory	Type	Description
twain_redirection_enable	No	Boolean	Whether to enable TWAIN device redirection. Options: false : disable; true : enable
image_compression_level	No	String	Image compression level. Options: none low (highest speed) medium (medium speed) high (lowest speed) lossless low-loss medium-loss high-loss
hid_redirection	No	hid_redirection object	Human interface device (HID) redirection.

Table 4-1505 printer_redirection

Parameter	Mandatory	Type	Description
printer_enable	No	Boolean	Whether to enable printer redirection. Options: false : disable; true : enable
options	No	options object	Printer redirection options.

Table 4-1506 options

Parameter	Mandatory	Type	Description
mobile_printer_enable	No	Boolean	Mobile client printer redirection. Options: false : disable; true : enable

Parameter	Mandatory	Type	Description
print_data_compression_mode	No	Boolean	Whether to enable data compression. Options: false : disable; true : enable
sync_client_default_printer_enable	No	Boolean	Whether to enable default client printer synchronization. Options: false : disable; true : enable
universal_printer_driver	No	String	Universal printer driver. By default, choose Universal Printing PS for Linux clients and HDP XPSDrv Driver for Windows clients. Options: HDP XPSDrv Driver ; Universal Printing PCL 5 Universal Printing PCL 6 Universal Printing PS

Table 4-1507 session_printer

Parameter	Mandatory	Type	Description
session_printer_enable	No	Boolean	Whether to enable session printers. Options: false : disable; true : enable
options	No	options object	Session printer options.

Table 4-1508 options

Parameter	Mandatory	Type	Description
session_printer_customization_policy	No	String	Custom session printer policy. A maximum of 1,000 characters are allowed.

Table 4-1509 camera_redirection

Parameter	Mandatory	Type	Description
video_compress_enable	No	Boolean	Whether to enable camera redirection. Options: false : disable; true : enable
options	No	options object	Camera redirection options.

Table 4-1510 options

Parameter	Mandatory	Type	Description
camera_frame_rate	No	Integer	Camera frame rate (FPS). The value ranges from 1 to 30. Default: 15
camera_max_width	No	Integer	Camera maximum width (pixel). The value ranges from 1 to 9999. Default: 3000
camera_max_height	No	Integer	Camera maximum height (pixel). The value ranges from 1 to 9999. Default: 3000
camera_compression_method	No	String	Camera data compression method. The value is H.264 .

Table 4-1511 hid_redirection

Parameter	Mandatory	Type	Description
hid_redirection_enable	No	Boolean	Whether to enable HID redirection. Options: false : disable; true : enable
options	No	options object	HID options.

Table 4-1512 options

Parameter	Mandatory	Type	Description
hid_redirection_customization_policy	No	String	Custom HID redirection policy.

Table 4-1513 usb_device_common

Parameter	Mandatory	Type	Description
pcsc_smartcard_enable	No	String	Whether to enable PC/SC smartcard redirection. Options: Enable: enabled Closed: closed Disable: disabled
common_options	No	common_options object	Options for both USB devices and device smartcards.

Table 4-1514 common_options

Parameter	Mandatory	Type	Description
remove_smartcard_disconnect_enable	No	Boolean	Whether to enable smartcard removal to log out of user sessions. Options: false: disable; true: enable

Table 4-1515 serial_port_redirection

Parameter	Mandatory	Type	Description
serial_port_enable	No	Boolean	Whether to enable serial port redirection. Options: false: disable; true: enable
options	No	options object	Serial port redirection options.

Table 4-1516 options

Parameter	Mandatory	Type	Description
auto_connect_enable	No	Boolean	Whether to enable automatic connection to client serial ports. Options: false : disable; true : enable

Table 4-1517 parallel_port_redirection

Parameter	Mandatory	Type	Description
parallel_port_enable	No	Boolean	Whether to enable parallel port redirection. Options: false : disable; true : enable

Table 4-1518 driver_interface_redirection

Parameter	Mandatory	Type	Description
api_redir_driver_list	No	String	Custom drivers. Enter one or more driver file names or full paths of driver files installed on terminals. Separate file names or paths with semicolons (;). A maximum of 1,000 characters are allowed.

Table 4-1519 audio

Parameter	Mandatory	Type	Description
audio_redirection_enable	No	Boolean	Whether to enable audio redirection. Options: false : disable; true : enable

Parameter	Mandatory	Type	Description
play_volume	No	String	<p>Playback volume.</p> <p>If this parameter is not specified, the value is Do Not Set Volume.</p> <p>Volume setting. The value ranges from 10 to 100, and the interval between two adjacent values is 5 in ascending order, for example, 10, 15, 20, and 25.</p>
play_volume_ratio	No	String	<p>Playback volume ratio.</p> <p>Options:</p> <p>If this parameter is not specified, the value is Do Not Set Volume Ratio.</p> <p>Low</p> <p>Middle: medium</p> <p>High</p>
record_volume	No	String	<p>Recording volume.</p> <p>If this parameter is not specified, the value is Do Not Set Volume.</p> <p>Volume setting. The value ranges from 10 to 100, and the interval between two adjacent values is 5 in ascending order, for example, 10, 15, 20, and 25.</p>
record_volume_ratio	No	String	<p>Recording volume ratio.</p> <p>Options:</p> <p>If this parameter is not specified, the value is Do Not Set Volume Ratio.</p> <p>Low</p> <p>Middle: medium</p> <p>High</p>
audio_transmission_mode	No	String	<p>Audio transmission mode.</p> <p>Options:</p> <p>Reliable Transmission</p> <p>Real Time Transmission</p>

Parameter	Mandatory	Type	Description
play_redirection_enable	No	Boolean	Whether to enable playback redirection. Options: false : disable; true : enable
play_classification	No	String	Playback scenario. Options: Lossless Speech Call Music Play Automatic Identification
play_quality	No	String	Playback quality. Options: Low Middle : medium High
play_denoising	No	String	Playback denoising. Options: Disabled. Enabled: The value ranges from -100 to -5, and the interval between two adjacent values is 5 in ascending order, for example, -100, -95, -90, and -85.
play_agc	No	String	Playback AGC. Options: Disabled. Enabled: The value ranges from 4,000 to 32,000. From 10,000 on, the interval between two adjacent values is 1,000 in ascending order, for example, 4,000, 6,000, 8,000, 10,000, 11,000, 12,000 and 13,000.
play_crc	No	String	Playback CRC. Options: Disable CRC Enable CRC
play_device_mode	No	String	Playback device mode. Options: Play Device In Shared Mode Play Device In Exclusive Mode

Parameter	Mandatory	Type	Description
play_delay_threshold	No	String	Playback delay threshold. The value ranges from 160 to 2,500. The values less than 400 are in ascending order with an interval of 40, and the values between 400 and 1,000 are in ascending order with an interval of 50. For example, the values can be as follows: 2,500, 2,000, 1,800, 1,500, 1,200, 1,000, 950, 900, 850.
play_amplitude_threshold	No	String	Playback amplitude threshold. The values can be: 2,048, 4,096, 5,120, 6,144, 7,168, 8,192.
play_prefill_data	No	String	Playback prefill data. Options: Do Not Prefill Data; Prefill Data : The value ranges from 50 to 2,000. The values less than 250 are in an ascending order with an interval of 50, and the values between 250 and 500 are in an ascending order with an interval of 100. For example, the values can be as follows: 2,000, 1,500, 1,000, 500, 400, 300, 250.
record_redirection_enable	No	Boolean	Whether to enable recording redirection. Options: false : disable; true : enable
record_classification	No	String	Recording scenario. Options: Lossless Speech Call Music Record Automatic Identification
record_quality	No	String	Recording quality. Options: Low Middle : medium High

Parameter	Mandatory	Type	Description
record_denoising	No	String	Recording denoising. Options: Disabled. Enabled: The value ranges from -100 to -5, and the interval between two adjacent values is 5 in ascending order, for example, -100, -95, -90, and -85.
record_agc	No	String	Recording AGC. Options: Disabled. Enabled: The value ranges from 4,000 to 32,000. From 10,000 on, the interval between two adjacent values is 1,000 in ascending order, for example, 4,000, 6,000, 8,000, 10,000, 11,000, 12,000 and 13,000.
record_crc	No	String	Recording CRC. Options: Disable CRC Enable CRC
record_device_mode	No	String	Recording device mode. Options: Record Device In Shared Mode Record Device In Exclusive Mode
record_delay_threshold	No	String	Recording delay threshold. The value ranges from 160 to 2,500. The values less than 400 are in ascending order with an interval of 40, and the values between 400 and 1,000 are in ascending order with an interval of 50. For example, the values can be as follows: 2,500, 2,000, 1,800, 1,500, 1,200, 1,000, 950, 900, 850.
record_amplitude_threshold	No	String	Recording amplitude threshold. The values can be: 2,048, 4,096, 5,120, 6,144, 7,168, 8,192.

Table 4-1520 client

Parameter	Mandatory	Type	Description
automatic_reconnection_interval	No	Integer	Automatic reconnection interval, in second. The value ranges from 1 to 50. Default: 5
session_persistence_time	No	Integer	Session persistence duration, in second. The value ranges from 0 to 180. Default: 180
autoclose_monitor_after_locked	No	Boolean	Automatic monitor shutdown after screen locking. Options: false : disable; true : enable
autoclose_monitor_options	No	autoclose_monitor_options object	Options for automatic monitor shutdown.
forbid_screen_capture	No	Boolean	Whether to enable screen capture prevention. Options: false : disable; true : enable
client_machine_join_domain	No	Boolean	Whether to verify the domain of a terminal. false : disable; true : enable
client_type	No	client_type object	Terminal type login control.

Table 4-1521 autoclose_monitor_options

Parameter	Mandatory	Type	Description
autoclose_monitor_wait_time	No	Integer	Time before automatic monitor shutdown, in second. The value ranges from 10 to 600,000. Default: 300

Table 4-1522 client_type

Parameter	Mandatory	Type	Description
client_type_limit	No	Boolean	Whether to enable terminal type login control. false : disable; true : enable
options	No	options object	Options for terminal type login control.

Table 4-1523 options

Parameter	Mandatory	Type	Description
sc_type_window	No	Boolean	Whether to select the Windows client. Options: false : not selected true : selected
sc_type_mac	No	Boolean	Whether to select the macOS client. Options: false : not selected true : selected
sc_type_android	No	Boolean	Whether to select the Android client. Options: false : not selected true : selected
sc_type_linux	No	Boolean	Whether to select the Linux client. Options: false : not selected true : selected
sc_type_h5	No	Boolean	Whether to select the web client. Options: false : not selected true : selected
sc_type_ios	No	Boolean	Whether to select the iOS client. Options: false : not selected true : selected

Parameter	Mandatory	Type	Description
sc_type_harmony_os	No	Boolean	Whether to select the HarmonyOS client. Options: false : not selected true : selected
tc_type_all	No	Boolean	Whether to select all hardware terminals. Options: false : not selected true : selected

Table 4-1524 display

Parameter	Mandatory	Type	Description
display_level	No	String	Display level. Options: LEVEL 1 LEVEL 2 LEVEL 3 LEVEL 4 (default/ recommended) LEVEL 5
options	No	options object	Display level options.
rendering_acceleration_enable	No	Boolean	Whether to enable rendering acceleration. Options: false : disable; true : enable
rendering_acceleration_options	No	rendering_acceleration_options object	Rendering acceleration options.
adaptive_bitrate_control_enable	No	Boolean	Whether to enable adaptive bitrate. Options: false : disable; true : enable
adaptive_bitrate_control_options	No	adaptive_bitrate_control_options object	Adaptive bitrate options.
video_card_memory_size	No	Integer	GPU card cache (MB). The value ranges from 0 to 64. Default: 64

Parameter	Mandatory	Type	Description
configuration_1_enable	No	Boolean	Whether to enable configuration item 1. Options: false : disable; true : enable
driver_delegation_mode_enable	No	Boolean	Whether to enable driver delegation. Options: false : disable; true : enable
driver_delegation_latency	No	Integer	Driver delegation latency (x 30 ms). The value ranges from 1 to 100. Default: 80
video_latency	No	Integer	Driver delegation video latency (x 30 ms). The value ranges from 1 to 100. Default: 80
change_resolution_vm	No	Boolean	Whether to enable resolution change. Options: false : disable; true : enable
application_recognition	No	String	Application recognition. A maximum of 1,024 characters are allowed.
duplicate_display_enable	No	Boolean	Duplicate display. Options: false : disable; true : enable
default_mapping_order	No	String	Default screen mapping sequence. Default: 1, 2, 3, 4
duplicate_display_mode	No	String	Duplicate display mode. Options: One-to-One : Only one channel is supported. One-to-Many : Multiple channels are supported.

Table 4-1525 options

Parameter	Mandatory	Type	Description
display_bandwidth	No	Integer	Bandwidth (kbit/s). The value ranges from 256 to 25,000. Default: 20,000
frame_rate	No	Integer	Frame rate (FPS). The value ranges from 1 to 60. Default: 25
video_frame_rate	No	Integer	Video frame rate (FPS). The value ranges from 1 to 60. Default: 30
min_image_cache	No	Integer	Minimum capacity for image cache (MB). The value ranges from 0 to 300. Default: 200
smoothing_factor	No	Integer	Lossy compression recognition threshold. The value ranges from 0 to 255. Default: 60
lossless_compression_mode	No	String	Lossless compression. Options: Basic Compression Deep Compression
deep_compression_options	No	deep_compression_options object	Deep compression options.
lossy_compression_quality	No	Integer	Lossy compression quality. The value ranges from 20 to 100. Default: 85
color_enhancement_enable	No	Boolean	Whether to enable color enhancement for office work. Options: false : disable; true : enable
quality_bandwidth_first	No	String	Quality/Bandwidth first. Options: Quality First Bandwidth First
video_bit_rate_options	No	video_bit_rate_options object	Video bitrate options.
peak_video_bit_rate	No	Integer	Peak video bitrate (kbit/s). The value ranges from 256 to 100,000. Default: 18,000

Parameter	Mandatory	Type	Description
video_quality_options	No	video_quality_options object	Video quality options.
gop_size	No	Integer	GOP size. The value ranges from 0 to 65535. Default: 100
encoding_preset	No	String	Encoding preset. Options: Preset 1 Preset 2 Preset 3 Preset 4 Preset 5 Preset 6 Preset 7

Table 4-1526 deep_compression_options

Parameter	Mandatory	Type	Description
deep_compression_level	No	String	Deep compression level. Options: Compression grade 0 Compression grade 1 Compression grade 2 Compression grade 3 Compression grade 4 Compression grade 5 Compression grade 6 Compression grade 7 Compression grade 8 Compression grade 9

Table 4-1527 video_bit_rate_options

Parameter	Mandatory	Type	Description
average_video_bit_rate	No	Integer	Average video bitrate (kbit/s). The value ranges from 256 to 100,000. Default: 18,000

Table 4-1528 video_quality_options

Parameter	Mandatory	Type	Description
average_video_quality	No	Integer	Average video quality. The value ranges from 5 to 59. Default: 15
lowest_video_quality	No	Integer	Lowest video quality. The value ranges from 5 to 69. Default: 25
highest_video_quality	No	Integer	Highest video quality. The value ranges from 1 to 59. Default: 7

Table 4-1529 rendering_acceleration_options

Parameter	Mandatory	Type	Description
video_acceleration_enhancement_enable	No	Boolean	Whether to enable video acceleration enhancement. Options: false : disable; true : enable
video_optimization_enable	No	Boolean	Whether to enable video scene optimization. Options: false : disable; true : enable
gpu_color_optimization_enable	No	Boolean	Whether to enable GPU color optimization. Options: false : disable; true : enable
video_recognition_threshold	No	Integer	Video recognition threshold. The value ranges from 0 to 500. Default: 10
frame_rate_statistical_length	No	Integer	Frame rate statistical length. The value ranges from 2 to 100. Default: 4
image_quality_threshold	No	Integer	Image quality threshold. The value ranges from 0 to 100. Default: 0
refresh_frequency_threshold	No	Integer	Refresh frequency threshold. The value ranges from 1 to 100. Default: 3

Parameter	Mandatory	Type	Description
exiting_video_area_threshold	No	Integer	Threshold of exiting the video area. The value ranges from 0 to 100. Default: 8
min_video_width	No	Integer	Minimum video width. The value ranges from 0 to 1,280. Default: 191
min_video_length	No	Integer	Minimum video height. The value ranges from 0 to 1,280. Default: 191
single_frame_natural_percentage	No	String	Threshold of the single-frame natural image block percentage. The value ranges from 0.000001 to 1. Default: 0.3
cyclical_natural_images_number	No	Integer	Threshold of cyclical natural image quantity percentage. The value ranges from 0 to 100. Default: 2
non_natural_image_percentage	No	String	Threshold of the non-natural image area percentage. The value ranges from 0.000001 to 1. Default: 0.85
non_natural_images_number	No	Integer	Threshold of non-natural image quantity percentage. The value ranges from 0 to 100. Default: 25

Table 4-1530 adaptive_bitrate_control_options

Parameter	Mandatory	Type	Description
peak_bandwidth_suppression_enable	No	Boolean	Whether to enable peak bandwidth suppression. Options: false : disable; true : enable
expected_average_network_latency	No	Integer	Expected average network latency, in millisecond. The value ranges from 1 to 2,000. Default: 160
network_latency_threshold1	No	Integer	Network latency threshold 1 (ms). The value ranges from 1 to 2,000. Default: 160

Parameter	Mandatory	Type	Description
network_latency_threshold2	No	Integer	Network latency threshold 2 (ms). The value ranges from 1 to 2,000. Default: 300
min_dynamic_frame_rate	No	Integer	Minimum dynamic frame rate (FPS). The value ranges from 1 to 60. Default: 17
min_dynamic_frame_rate_lv1	No	Integer	Minimum dynamic frame rate level 1 (FPS). The value ranges from 1 to 60. Default: 17
min_dynamic_frame_rate_lv2	No	Integer	Minimum dynamic frame rate level 2 (FPS). The value ranges from 1 to 60. Default: 10
rtt_threshold	No	Integer	Frame rate control parameter 1. The value ranges from 0 to 1,000. Default: 20
min_add_framerate	No	Integer	Frame rate control parameter 2. The value ranges from 0 to 120. Default: 8
max_add_framerate	No	Integer	Frame rate control parameter 3. The value ranges from 0 to 120. Default: 20
sub_framerate	No	Integer	Frame rate control parameter 4. The value ranges from 0 to 120. Default: 25
adaptive_bandwidth_lower_limit	No	Integer	Adaptive bandwidth lower limit, in kbit/s. The value ranges from 100 to 20,000. Default: 500
adaptive_compression_quality_lower_limit	No	Integer	Lower limit of adaptive lossy compression quality. The value ranges from 1 to 100. Default: 60
adaptive_compression_quality_upper_limit	No	Integer	Upper limit of adaptive lossy compression quality. The value ranges from 1 to 100. Default: 85
adaptive_compression_quality_increase_limit	No	Integer	Increase limit of adaptive lossy compression quality. The value ranges from 1 to 100. Default: 5

Parameter	Mandatory	Type	Description
adaptive_compression_quality_decrease_limit	No	Integer	Decrease limit of adaptive lossy compression quality. The value ranges from 1 to 100. Default: 10
adaptive_average_quality_lower_limit	No	Integer	Lower limit of adaptive average video quality. The value ranges from 5 to 50. Default: 15
adaptive_average_quality_upper_limit	No	Integer	Upper limit of adaptive average video quality. The value ranges from 5 to 50. Default: 25
adaptive_average_quality_increase_limit	No	Integer	Increase limit of adaptive average video quality. The value ranges from 1 to 50. Default: 3
adaptive_average_quality_decrease_limit	No	Integer	Decrease limit of adaptive average video quality. The value ranges from 1 to 50. Default: 1
adaptive_minimum_quality_lower_limit	No	Integer	Lower limit of adaptive minimum video quality. The value ranges from 5 to 69. Default: 25
adaptive_minimum_quality_upper_limit	No	Integer	Upper limit of adaptive minimum video quality. The value ranges from 5 to 69. Default: 30
adaptive_minimum_quality_increase_limit	No	Integer	Increase limit of adaptive minimum video quality. The value ranges from 1 to 50. Default: 3
adaptive_minimum_quality_decrease_limit	No	Integer	Decrease limit of adaptive minimum video quality. The value ranges from 1 to 50. Default: 1

Table 4-1531 file_and_clipboard

Parameter	Mandatory	Type	Description
file_redirection	No	file_redirection object	File redirection.

Parameter	Mandatory	Type	Description
clip_length_limit_flag_c2s	No	Boolean	Clipboard length.
clip_length_limit_c2s	No	Integer	Client clipboard length.
clip_length_limit_flag_s2c	No	Boolean	Clipboard length.
clip_length_limit_s2c	No	Integer	Client clipboard length.
fd_mobile_client_redirection_enable	No	Boolean	Whether to enable mobile client file redirection. Options: false : disable; true : enable
clipboard_redirection	No	String	Clipboard redirection. Options: DISABLED (default) SERVER_TO_CLIENT_ENABLED (from the server to the client) CLIENT_TO_SERVER_ENABLED (from the client to the server) TWO_WAY_ENABLED (two-way)
clipboard_redirection_options	No	clipboard_redirection_options object	Clipboard redirection options.

Table 4-1532 file_redirection

Parameter	Mandatory	Type	Description
redirection_mode	No	String	File redirection. Options: DISABLED (default) READ_ONLY READ_AND_WRITE
options	No	options object	File redirection options.

Parameter	Mandatory	Type	Description
vm_send_file_client	No	Boolean	Whether to enable the function of sending files from the VM to the client. Options: false : disable; true : enable
redirection_send_file_options	No	redirection_send_file_options object	Options for both redirection and file sending.

Table 4-1533 options

Parameter	Mandatory	Type	Description
fluid_control_switch_enable	No	Boolean	Whether to enable rate limit. Options: false : disable; true : enable
fluid_control_options	No	fluid_control_options object	Rate limit options.
compression_switch_enable	No	Boolean	Whether to enable compression. Options: false : disable; true : enable
compression_switch_options	No	compression_switch_options object	Compression options.
linux_file_size_supported_enable	No	Boolean	Whether to enable the function of setting the file size in Linux. Options: false : disable; true : enable
linux_file_size_supported_options	No	linux_file_size_supported_options object	Options for setting the file size in Linux.
linux_root_mount_switch_enable	No	Boolean	Whether to enable root directory mount in Linux. Options: false : disable; true : enable

Parameter	Mandatory	Type	Description
linux_root_dir_list	No	String	Mount path of the Linux root directory. Default: \var\log
linux_file_mount_path	No	String	Mount path of the Linux file system. Default: \media \Volumes\swdb\mnt\home \storage\tmp\run\media
linux_fixed_drive_file_system_format	No	String	Linux fixed driver file system format.
linux_removable_drive_file_system_format	No	String	Linux removable driver file system format. Default: vfat ntfs msdos fuseblk sdcardfs exfat fuse.fdir lifs
linux_cdrom_drive_file_system_format	No	String	Linux CD-ROM driver file system format. Default: cd9660 iso9660 udf
linux_network_drive_file_system_format	No	String	Linux network driver file system format. Default: smbfs afpfs cifs
path_separator	No	String	Path separator. Default:
fixed_drive_enable	No	Boolean	Whether to enable fixed drivers (such as local disks). Options: false : disable; true : enable
removable_drive_enable	No	Boolean	Whether to enable removable drivers (such as USB flash drives). Options: false : disable; true : enable
cd_rom_drive_enable	No	Boolean	Whether to enable CD-ROM drivers. Options: false : disable; true : enable
network_drive_enable	No	Boolean	Whether to enable network drivers. Options: false : disable; true : enable

Table 4-1534 fluid_control_options

Parameter	Mandatory	Type	Description
good_network_latency	No	Integer	Good network latency threshold (ms). The value ranges from 1 to 1,000. Default: 30
normal_network_latency	No	Integer	Normal network latency threshold (ms). The value ranges from 1 to 1,000. Default: 70
poor_network_latency	No	Integer	Poor network latency threshold (ms). The value ranges from 1 to 1,000. Default: 100
reducing_step	No	Integer	Reducing step (KB). The value ranges from 1 to 100. Default: 20
slow_increasing_step	No	Integer	Slow increasing step (KB). The value ranges from 1 to 100. Default: 10
quick_increasing_step	No	Integer	Quick increasing step (KB). The value ranges from 1 to 100. Default: 20
start_speed	No	Integer	Initial transmission speed (KB/s). The value ranges from 1 to 10,240. Default: 1,024
test_block_size	No	Integer	Speed test block size (KB). The value ranges from 64 to 1,024. Default: 64
test_time_gap	No	Integer	Speed test block interval (ms). The value ranges from 1,000 to 100,000. Default: 10,000

Table 4-1535 compression_switch_options

Parameter	Mandatory	Type	Description
compression_threshold	No	Integer	Compression threshold (byte). The value ranges from 0 to 10,240. Default: 512
minimum_compression_rate	No	Integer	Minimum compression rate. The value ranges from 0 to 1,000. Default: 900

Table 4-1536 linux_file_size_supported_options

Parameter	Mandatory	Type	Description
linux_file_size_supported_threshold	No	Integer	File size threshold in Linux (byte). The value ranges from 0 to 4,096. Default: 100

Table 4-1537 redirection_send_file_options

Parameter	Mandatory	Type	Description
read_write_speed	No	Integer	Read/Write speed (kbit/s). The value ranges from 0 to 2147483647. Default: 0

Table 4-1538 clipboard_redirection_options

Parameter	Mandatory	Type	Description
rich_text_redirection_enable	No	Boolean	Whether to enable clipboard rich text redirection. Options: false : disable; true : enable
clipboard_file_redirection_enable	No	Boolean	Whether to enable clipboard file redirection. Options: false : disable; true : enable

Table 4-1539 Session

Parameter	Mandatory	Type	Description
vdi	No	Vdi object	VDI.
self_help_console	No	Boolean	Whether to enable preemption login to the self-help console. Options: false : disable; true : enable
disconnect_on_lock_flag	No	Boolean	Whether to disconnect after the screen is locked.
auto_lock_start_time	No	String	Start time when the lock takes effect. The format is hh:mm:ss.
auto_lock_end_time	No	String	Start time when the lock takes effect. The format is hh:mm:ss.

Table 4-1540 Vdi

Parameter	Mandatory	Type	Description
auto_lock_enable	No	Boolean	Whether to enable automatic screen locking. Options: false : disable; true : enable
auto_lock_options	No	AutoLockOptions object	Options available after automatic screen locking is enabled.
disconnect_logout_enable	No	Integer	Whether to enable automatic logout upon disconnection. Options: 0 : disable; 1 : enable
disconnect_logout_options	No	DisconnectLogoutOptions object	Options available after automatic logout upon disconnection is enabled.
disconnect_hibernate_enable	No	Boolean	Whether to enable automatic logout upon disconnection. Options: 0 : disable; 1 : enable
disconnect_hibernate_options	No	disconnect_hibernate_options object	Options for hibernation upon disconnection.
no_operation_hibernate_enable	No	Boolean	Whether to enable automatic logout upon disconnection. Options: 0 : disable; 1 : enable
no_operation_hibernate_options	No	no_operation_hibernate_options object	Do not select the hibernation option.

Table 4-1541 AutoLockOptions

Parameter	Mandatory	Type	Description
auto_lock_minutes	No	Integer	Time before screen locking, in minute. The value ranges from 3 to 86,400. Default: 10

Parameter	Mandatory	Type	Description
auto_disconnect	No	String	Automatic disconnection or logout. Options: AUTO_DISCONNECT (automatic disconnection); AUTO_LOGOUT (automatic logout); DISABLED (disabled); AUTO_RESTART (default, automatic restart); AUTO_STOP (automatic shutdown); HIBERNATE (hibernation)
options	No	AutoDisconnectOrLogoutControlOptions object	Options available after automatic disconnection or automatic logout is enabled.

Table 4-1542 AutoDisconnectOrLogoutControlOptions

Parameter	Mandatory	Type	Description
auto_disconnect_minutes	No	Integer	Time before disconnection or logout, in minute. The value ranges from 1 to 86,400. Default: 1,440

Table 4-1543 DisconnectLogoutOptions

Parameter	Mandatory	Type	Description
disconnect_logout_minutes	No	Integer	Time before automatic logout upon disconnection, in minute. The value ranges from 3 to 86,400. Default: 10

Table 4-1544 disconnect_hibernate_options

Parameter	Mandatory	Type	Description
disconnect_hibernate_minutes	No	Integer	Hibernation duration upon disconnection.

Table 4-1545 no_operation_hibernate_options

Parameter	Mandatory	Type	Description
no_operation_hibernate_minutes	No	Integer	Policy group ID.

Table 4-1546 VirtualChannel

Parameter	Mandatory	Type	Description
virtual_channel_control_enable	No	Boolean	Whether to enable the virtual channel policy. Options: false : disable; true : enable
options	No	VirtualChannelOptions object	Virtual channel policy options.

Table 4-1547 VirtualChannelOptions

Parameter	Mandatory	Type	Description
custom_virtual_channel_name	No	String	Custom registered virtual channel name. Currently, only ASCII characters are supported. The value can contain a maximum of 65,535 characters.
virtual_channel_plugin_details	No	String	Virtual channel download details (Base64-encoded). Before encryption, only ASCII characters are supported. The value can contain a maximum of 65,535 characters.
third_party_plugin_name	No	String	Third-party plug-in name. The value can contain a maximum of 65,535 characters.

Table 4-1548 Watermark

Parameter	Mandatory	Type	Description
watermark_enable	No	Boolean	Indicates whether to enable the watermark policy. Options: false : disable; true : enable

Parameter	Mandatory	Type	Description
options	No	WatermarkOptions object	Watermark policy options.

Table 4-1549 WatermarkOptions

Parameter	Mandatory	Type	Description
show_style	No	String	Display mode. Options: FIXED (fixed position); RANDOM (random motion)
color	No	String	Color. Format: RRGGBB . Default: 2a2a2a
font_size	No	Integer	Font size. The value ranges from 1 to 200. Default: 30
opacity_setting	No	String	Opacity (%). The value ranges from 0 to 100. Default: 12.5
content_item_count	No	Integer	Number of watermarks. The value ranges from 1 to 30. Default: 1
display_format	No	String	Watermark content display format.
lean	No	Integer	Tilt. The value ranges from -90 to 90. Default: -45
content_customized	No	String	Custom content, which cannot contain special characters such as >.
content_color	No	String	Content color.
watermark_security_access	No	Boolean	Whether to enable the security-first mode.
user_extend_info_switch	No	Boolean	Whether to enable extended user information. false : disable; true : enable
user_extend_info	No	String	Extended user information.

Table 4-1550 keyboard_mouse

Parameter	Mandatory	Type	Description
mouse_feedback	No	String	VM mouse device feedback. Options: SELFADAPTION : adaptive mouse device feedback FORCE : forcible mouse device feedback CLOSE : no mouse device feedback
mouse_simulation_mode	No	String	VM mouse device simulation mode. Options: ABSOLUTE_POSITION : absolute position simulation RELATIVE_POSITION : relative position simulation
external_cursor_feedback	No	Boolean	Whether to enable VM external cursor feedback. Options: false : disable; true : enable
selfhelp_console_enable	No	Boolean	Whether to enable preemption login to the self-help console. Options: false : disable; true : enable
client_mouse_send_interval	No	Integer	Interval for sending mouse device operations on the client. The value ranges from 1 to 30. Default: 30
windows_client_keyboard_mode	No	String	Windows client keyboard mode. Options: GLOBAL : global mode for Windows client keyboards (default) WINDOW : windowed mode for for Windows client keyboards

Parameter	Mandatory	Type	Description
windows_client_mouse_mode	No	String	Windows client mouse device mode. Options: GLOBAL : global mode for Windows client mouse devices WINDOW : windowed mode for Windows client mouse devices (default)
linux_client_keyboard_mode	No	String	Linux client keyboard mode. Options: EVENT : event mode for Linux client keyboards (default) GRAPH : graphics mode for Linux client keyboards
linux_client_mouse_mode	No	String	Linux client mouse device mode. Options: EVENT : event mode for Linux client mouse devices (default) GRAPH : graphics mode for Linux client mouse devices
special_keyboard	No	Boolean	Special keyboard. Options: false : disable; true : enable
joy_stick_flag	No	Boolean	Joystick. Options: false : disable; true : enable

Table 4-1551 seamless

Parameter	Mandatory	Type	Description
seamless_enable	No	Boolean	Whether to enable audio/video bypass. Options: false : disable; true : enable
options	No	options object	General audio/video settings.

Table 4-1552 options

Parameter	Mandatory	Type	Description
seamless_appl y_path	No	String	Software path. A maximum of 1,000 characters are allowed.

Table 4-1553 personalized_data_mgmt

Parameter	Mandatory	Type	Description
personalized_ data_mgmt_p ath	No	String	Personalized data management path.
user_data_roa ming_enable	No	Boolean	User data roaming.
user_data_roa ming_options	No	user_data_ro aming_optio ns object	User data roaming options.
user_folder_re direction_ena ble	No	Boolean	Enables user folder redirection.
user_folder_re direction_opti ons	No	user_folder_r edirection_op tions object	User folder redirection options.
logoff_delete_ user_configur ation	No	Boolean	Enables user folder redirection.
network_drive _mapping_en able	No	Boolean	Enables user folder redirection.
network_drive _mapping_opt ions	No	network_driv e_mapping_o ptions object	Network driver mapping options.

Table 4-1554 user_data_roaming_options

Parameter	Mandatory	Type	Description
profile_stream ing_enable	No	Boolean	Whether to enable profile streaming.
roamed_files_l ocal_path	No	String	Local path of roamed files.

Parameter	Mandatory	Type	Description
exclude_folders_path	No	String	Path of an excluded folder.
roaming_registry_method	No	String	Path of an excluded folder.
roaming_registry_path	No	String	Path of roaming registration.

Table 4-1555 user_folder_redirection_options

Parameter	Mandatory	Type	Description
restore_local_directories_enable	No	Boolean	Enables the restoration of local directories.
appData_roaming_enable	No	Boolean	Enables application data roaming.
redirec_desktop	No	Boolean	Desktop redirection.
redirec_start_menu	No	Boolean	Start menu.
redirec_documents	No	Boolean	Document.
redirec_pictures	No	Boolean	Photo.
redirec_music	No	Boolean	Music.
redirec_videos	No	Boolean	Audio recording.
redirec_favorites	No	Boolean	Favorite.
redirec_contacts	No	Boolean	Audio recording.
redirec_downloads	No	Boolean	Download.
redirec_links	No	Boolean	Link
redirec_searches	No	Boolean	Search.
redirec_saved_games	No	Boolean	Game storage.

Table 4-1556 network_drive_mapping_options

Parameter	Mandatory	Type	Description
network_drive_mapping_path	No	String	Network drive mapping path.
drive_letter	No	String	Path of an excluded folder.

Table 4-1557 custom

Parameter	Mandatory	Type	Description
custom_configuration1_enable	No	Boolean	Whether to enable custom configuration.
options	No	options object	General audio/video settings.

Table 4-1558 options

Parameter	Mandatory	Type	Description
custom_configuration1_rule	No	String	Custom configuration rule.

Table 4-1559 record_audit

Parameter	Mandatory	Type	Description
enable	No	Boolean	Whether to enable screen recording audit. Options: false : disable; true : enable
rules	No	rules object	Screen recording rules.
storage_type	No	String	Storage type. Options: OBS : OBS bucket SFTP : SFTP interconnection
obs_bucket_source	No	String	OBS bucket source. Options: AUTO_CREATE : automatically created CREATED : created

Parameter	Mandatory	Type	Description
obs_bucket_name	No	String	OBS bucket name
retention_duration	No	Integer	Retention period of a screen recording file, in days. The value ranges from 1 to 180. 0 indicates that the file is retained permanently.

Table 4-1560 rules

Parameter	Mandatory	Type	Description
rule	No	RecordAuditRule object	Rule.

Table 4-1561 RecordAuditRule

Parameter	Mandatory	Type	Description
record_type	No	String	Recording type. Options: whole : continuous screen recording interval : interval screen recording userOperations : screen recording by users sessionMonitoring : screen recording of the session lifecycle
interval_record_start_time	No	String	Start time of interval-based screen recording. This parameter is valid only when interval is used. The format is hh:mm.
interval_record_end_time	No	String	End time of interval-based screen recording. This parameter is valid only when interval is used. The format is hh:mm.

Parameter	Mandatory	Type	Description
op_type	No	String	Operation triggering type. This parameter is valid only when userOperations is used. Options: input : Screen recording is started once the user enters content. filecopy : Screen recording is started once the user copies a file.
audio_record	No	Boolean	Whether to enable audio recording. Options: false : disable; true : enable
fps	No	String	Recording frame rate. The value can be 2, 5, 10, or 15 .
duration	No	String	Duration of a single video recording file, in minutes. The value can be 10, 20, 30, or 60 .
resolution	No	String	Resolution settings. The value can be 720P, 1080P, or original .
event_enable	No	Boolean	Whether to enable key event audit. Options: false : disabled true : enabled
file_suffix	No	String	File name extension. Use vertical bars () to separate multiple file name extensions.
regit_paths	No	String	Registry path. Use vertical bars () to separate multiple registry paths.
app_filter_type	No	String	Application filtering type. The value can be black (blacklist) or white (whitelist).
app_white_list	No	String	Enables or disables the application whitelist. If it is enabled, only the whitelisted applications are monitored.

Parameter	Mandatory	Type	Description
app_black_list	No	String	Enables or disables the application blacklist. Blacklisted applications will be ignored.

Response Parameters

Status code: 201

Table 4-1562 Response body parameters

Parameter	Type	Description
id	String	Policy group ID.

Status code: 400

Table 4-1563 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401

Table 4-1564 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-1565** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-1566** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 405**Table 4-1567** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500

Table 4-1568 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 503**Table 4-1569** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
POST /v2/29dfe82ada564ac2b927e1ff036d9a9b/policy-groups
```

```
{
  "policy_group" : {
    "policy_group_id" : "string",
    "policy_group_name" : "string",
    "priority" : 55,
    "description" : "string",
    "update_time" : "string",
    "targets" : [ {
      "target_id" : "string",
      "target_name" : "string",
      "target_type" : "string"
    } ],
    "policies" : {
      "peripherals" : {
        "usb_custom_policy_debug" : "string",
        "usb_port_redirection" : {
          "usb_enable" : true,
          "options" : {
            "usb_image_enable" : true,
            "usb_video_enable" : true,
            "usb_printer_enable" : true,
            "usb_storage_enable" : false,
            "wireless_devices_enable" : false,
            "network_devices_enable" : false,
            "usb_smart_card_enable" : true,
            "other_usb_devices_enable" : false,
            "usb_redirection_customization_policy" : "string",
```

```

    "usb_redirection_mode" : "Common mode"
  }
},
"device_redirection" : {
  "printer_redirection" : {
    "printer_enable" : true,
    "options" : {
      "mobile_printer_enable" : false,
      "print_data_compression_mode" : false,
      "sync_client_default_printer_enable" : true,
      "universal_printer_driver" : "Default"
    }
  },
  "session_printer" : {
    "session_printer_enable" : false,
    "options" : {
      "session_printer_customization_policy" : "string"
    }
  },
  "camera_redirection" : {
    "video_compress_enable" : true,
    "options" : {
      "camera_frame_rate" : 15,
      "camera_max_width" : 3000,
      "camera_max_height" : 3000,
      "camera_compression_method" : "H.264"
    }
  },
  "twain_redirection_enable" : true,
  "image_compression_level" : "medium",
  "hid_redirection" : {
    "hid_redirection_enable" : false,
    "options" : {
      "hid_redirection_customization_policy" : "string"
    }
  }
},
"usb_device_common" : {
  "pcsc_smart_card_enable" : "Disable",
  "common_options" : {
    "remove_smart_card_disconnect_enable" : false
  }
},
"serial_port_redirection" : {
  "serial_port_enable" : false,
  "options" : {
    "auto_connect_enable" : false
  }
},
"parallel_port_redirection" : {
  "parallel_port_enable" : false
},
"driver_interface_redirection" : {
  "api_redir_driver_list" : "string"
}
},
"audio" : {
  "audio_redirection_enable" : true,
  "play_volume" : "Do Not Set Volume",
  "play_volume_ratio" : "Do Not Set Volume Ratio",
  "record_volume" : "100",
  "record_volume_ratio" : "Do Not Set Volume Ratio",
  "audio_transmission_mode" : "Reliable Transmission",
  "play_redirection_enable" : true,
  "play_classification" : "Music Play",
  "play_quality" : "Middle",
  "play_denoising" : "Disable Denoising",
  "play_agc" : "Disable AGC",
  "play_crc" : "Disable CRC",

```

```

"play_device_mode" : "Play Device In Shared Mode",
"play_delay_threshold" : "240",
"play_amplitude_threshold" : "4096",
"play_prefill_data" : "Do Not Prefill Data",
"record_redirection_enable" : true,
"record_classification" : "Speech Call",
"record_quality" : "Middle",
"record_denoising" : "-25",
"record_agc" : "Disable AGC",
"record_crc" : "Disable CRC",
"record_device_mode" : "Record Device In Shared Mode",
"record_delay_threshold" : "200",
"record_amplitude_threshold" : "4096"
},
"client" : {
"automatic_reconnection_interval" : 5,
"session_persistence_time" : 180,
"autoclose_monitor_after_locked" : false,
"autoclose_monitor_options" : {
"autoclose_monitor_wait_time" : 300
},
"forbid_screen_capture" : false,
"client_machine_join_domain" : true,
"client_type" : {
"client_type_limit" : true,
"options" : {
"sc_type_window" : true,
"sc_type_mac" : true,
"sc_type_android" : true,
"sc_type_linux" : true,
"sc_type_h5" : true,
"sc_type_ios" : true,
"sc_type_harmony_os" : true,
"tc_type_all" : true
}
}
},
"display" : {
"display_level" : "LEVEL4",
"options" : {
"display_bandwidth" : 20000,
"frame_rate" : 25,
"video_frame_rate" : 30,
"min_image_cache" : 200,
"smoothing_factor" : 60,
"lossless_compression_mode" : "Basic Compression",
"deep_compression_options" : {
"deep_compression_level" : "Compression grade 0"
},
"lossy_compression_quality" : 85,
"color_enhancement_enable" : false,
"quality_bandwidth_first" : "Quality First",
"video_bit_rate_options" : {
"average_video_bit_rate" : 18000
},
"peak_video_bit_rate" : 18000,
"video_quality_options" : {
"average_video_quality" : 15,
"lowest_video_quality" : 25,
"highest_video_quality" : 7
},
"gop_size" : 100,
"encoding_preset" : "Preset 1"
},
"rendering_acceleration_enable" : false,
"rendering_acceleration_options" : {
"video_acceleration_enhancement_enable" : true,
"video_optimization_enable" : false,
"gpu_color_optimization_enable" : false,

```



```

"video_recognition_threshold" : 10,
"frame_rate_statistical_length" : 4,
"image_quality_threshold" : 0,
"refresh_frequency_threshold" : 3,
"exiting_video_area_threshold" : 8,
"min_video_width" : 191,
"min_video_length" : 191,
"single_frame_natural_percentage" : "0.3",
"cyclical_natural_images_number" : 2,
"non_natural_image_percentage" : "0.85",
"non_natural_images_number" : 25
},
"adaptive_bitrate_control_enable" : false,
"adaptive_bitrate_control_options" : {
  "peak_bandwidth_suppression_enable" : false,
  "expected_average_network_latency" : 160,
  "network_latency_threshold1" : 160,
  "network_latency_threshold2" : 300,
  "min_dynamic_frame_rate" : 17,
  "min_dynamic_frame_rate_lv1" : 17,
  "min_dynamic_frame_rate_lv2" : 10,
  "rtt_threshold" : 20,
  "min_add_framerate" : 8,
  "max_add_framerate" : 20,
  "sub_framerate" : 25,
  "adaptive_bandwidth_lower_limit" : 500,
  "adaptive_compression_quality_lower_limit" : 60,
  "adaptive_compression_quality_upper_limit" : 85,
  "adaptive_compression_quality_increase_limit" : 5,
  "adaptive_compression_quality_decrease_limit" : 10,
  "adaptive_average_quality_lower_limit" : 15,
  "adaptive_average_quality_upper_limit" : 25,
  "adaptive_average_quality_increase_limit" : 3,
  "adaptive_average_quality_decrease_limit" : 1,
  "adaptive_min_quality_lower_limit" : 25,
  "adaptive_min_quality_upper_limit" : 30,
  "adaptive_min_quality_increase_limit" : 3,
  "adaptive_min_quality_decrease_limit" : 1
},
"video_card_memory_size" : 64,
"configuration1_enable" : false,
"driver_delegation_mode_enable" : false,
"driver_delegation_latency" : 80,
"video_latency" : 80,
"change_resolution_vm" : false,
"application_recognition" : "string",
"duplicate_display_enable" : false,
"default_mapping_order" : "1,2,3,4",
"duplicate_display_mode" : "One-to-One"
},
"file_and_clipboard" : {
  "file_redirection" : {
    "redirection_mode" : "DISABLED",
    "options" : {
      "fluid_control_switch_enable" : false,
      "fluid_control_options" : {
        "good_network_latency" : 30,
        "normal_network_latency" : 70,
        "poor_network_latency" : 100,
        "reducing_step" : 20,
        "slow_increasing_step" : 10,
        "quick_increasing_step" : 20,
        "start_speed" : 1024,
        "test_block_size" : 64,
        "test_time_gap" : 10000
      },
      "compression_switch_enable" : false,
      "compression_switch_options" : {
        "compression_threshold" : 512,

```

```

    "minimum_compression_rate" : 900
  },
  "linux_file_size_supported_enable" : true,
  "linux_file_size_supported_options" : {
    "linux_file_size_supported_threshold" : 100
  },
  "linux_root_mount_switch_enable" : true,
  "linux_root_dir_list" : "\\var\\log",
  "linux_file_mount_path" : "\\media\\Volumes\\swdb\\mnt\\home\\storage\\tmp\\run\\media",
  "linux_fixed_drive_file_system_format" : "string",
  "linux_removable_drive_file_system_format" : "vfat|ntfs|msdos|fuseblk|sdcardfs|exfat|fuse.fdredir|lifs",
  "linux_cdrom_drive_file_system_format" : "cd9660|iso9660|udf",
  "linux_network_drive_file_system_format" : "smbfs|afpfs|cifs",
  "path_separator" : "|",
  "fixed_drive_enable" : true,
  "removable_drive_enable" : true,
  "cd_rom_drive_enable" : true,
  "network_drive_enable" : true
},
"vm_send_file_client" : true,
"redirection_send_file_options" : {
  "read_write_speed" : 0
}
},
"clip_length_limit_flag_c2s" : true,
"clip_length_limit_c2s" : 180,
"clip_length_limit_flag_s2c" : true,
"clip_length_limit_s2c" : 180,
"fd_mobile_client_redir_enable" : true,
"clipboard_redirection" : "DISABLED",
"clipboard_redirection_options" : {
  "rich_text_redirection_enable" : true,
  "clipboard_file_redirection_enable" : true
}
},
"session" : {
  "vdi" : {
    "auto_lock_enable" : true,
    "auto_lock_options" : {
      "auto_lock_minutes" : 10,
      "auto_disconnect" : "DISABLED",
      "options" : {
        "auto_disconnect_minutes" : 1440
      }
    }
  },
  "disconnect_logout_enable" : 0,
  "disconnect_logout_options" : {
    "disconnect_logout_minutes" : 10
  },
  "disconnect_hibernate_enable" : false,
  "disconnect_hibernate_options" : {
    "disconnect_hibernate_minutes" : 0
  },
  "no_operation_hibernate_enable" : false,
  "no_operation_hibernate_options" : {
    "no_operation_hibernate_minutes" : 0
  }
},
"self_help_console" : true,
"disconnect_on_lock_flag" : false
},
"virtual_channel" : {
  "virtual_channel_control_enable" : false,
  "options" : {
    "custom_virtual_channel_name" : "string",
    "virtual_channel_plugin_details" : "string",
    "third_party_plugin_name" : "string"
  }
}

```

```

    },
    "watermark" : {
      "watermark_enable" : false,
      "options" : {
        "show_style" : "RANDOM",
        "color" : "2a2a2a",
        "font_size" : 30,
        "opacity_setting" : "12.5",
        "content_item_count" : 1,
        "display_format" : "{\AlignMode\":"left\","DateTimeFormat\":"DT\","DateFormat\":"yyyy-mm-dd
\","TimeFormat\":"hh:mm:ss\","RepeatCount\":"2\","RepeatInterval\":"10\","DisplayFormat\":"
{\Content1\":"CustomContent\","Interval1\":"n\","Content2\":"UserName
\","Interval2\":"4\","Content3\":"DateTime\}}",
        "lean" : -45,
        "content_customized" : "string",
        "content_color" : 522857002,
        "watermark_security_access" : false,
        "user_extend_info_switch" : false,
        "user_extend_info" : "string"
      }
    },
    "keyboard_mouse" : {
      "mouse_feedback" : "SELFADAPTION",
      "mouse_simulation_mode" : "ABSOLUTE_POSITION",
      "external_cursor_feedback" : false,
      "selfhelp_console_enable" : true,
      "client_mouse_send_interval" : 30,
      "windows_client_keyboard_mode" : "GLOBAL",
      "windows_client_mouse_mode" : "WINDOW",
      "linux_client_keyboard_mode" : "EVENT",
      "linux_client_mouse_mode" : "EVENT",
      "special_keyboard" : false,
      "joy_stick_flag" : false
    },
    "seamless" : {
      "seamless_enable" : false,
      "options" : {
        "seamless_apply_path" : "string"
      }
    },
    "personalized_data_mgmt" : {
      "personalized_data_mgmt_path" : "string",
      "user_data_roaming_enable" : false,
      "user_data_roaming_options" : {
        "profile_streaming_enable" : false,
        "roamed_files_local_path" : "string",
        "exclude_folders_path" : "string",
        "roaming_registry_method" : "string",
        "roaming_registry_path" : "string"
      }
    },
    "user_folder_redirection_enable" : false,
    "user_folder_redirection_options" : {
      "restore_local_directories_enable" : false,
      "appData_roaming_enable" : false,
      "redirec_desktop" : false,
      "redirec_start_menu" : false,
      "redirec_documents" : false,
      "redirec_pictures" : false,
      "redirec_music" : false,
      "redirec_videos" : false,
      "redirec_favorites" : false,
      "redirec_contacts" : false,
      "redirec_downloads" : false,
      "redirec_links" : false,
      "redirec_searches" : false,
      "redirec_saved_games" : false
    },
    "logoff_delete_user_configuration" : false,
    "network_drive_mapping_enable" : false,

```


Error Codes

See [Error Codes](#).

4.14.3 Deleting a Policy Group

Function

Deletes a specified policy group, including the policy information and application object information of the policy group.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

DELETE /v2/{project_id}/policy-groups/{policy_group_id}

Table 4-1570 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
policy_group_id	Yes	String	Policy group ID.

Request Parameters

Table 4-1571 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body, for example, application/json .

Response Parameters

Status code: 204

Normal.

Status code: 400

Table 4-1572 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401

Table 4-1573 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403

Table 4-1574 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404

Table 4-1575 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 405**Table 4-1576** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-1577** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 503

Table 4-1578 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
204	Normal.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.14.4 Querying Policy Group Details

Function

Queries details about a policy group by policy group ID, including the policy information and application object information.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/policy-groups/{policy_group_id}

Table 4-1579 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
policy_group_id	Yes	String	Policy group ID.

Request Parameters

Table 4-1580 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body, for example, application/json .

Response Parameters

Status code: 200

Table 4-1581 Response body parameters

Parameter	Type	Description
policy_group	PolicyGroup object	Policy group.

Table 4-1582 PolicyGroup

Parameter	Type	Description
policy_group_id	String	Policy group ID.
policy_group_name	String	Policy group name.
priority	Integer	Priority.
update_time	String	Update date.
description	String	Policy group description.
targets	Array of Target objects	Objects to which a policy applies.
policies	Policies object	Policy.

Table 4-1583 Target

Parameter	Type	Description
target_id	String	Object ID.
target_name	String	Object name. The value can contain a maximum of 55 characters.

Parameter	Type	Description
target_type	String	Object type. <ul style="list-style-type: none"> • INSTANCE: desktops • target_id: desktop SIDs • target_name: desktop names • USER: users • target_id: user IDs • target_name: usernames • USERGROUP: user groups • target_id: user group IDs • target_name: user group names • CLIENTIP: terminal IP addresses • target_id: terminal IP addresses • target_name: terminal IP addresses • OU: organization units • target_id: OU IDs • target_name: OU names • DESKTOPSPOOL: desktop pools • target_id: desktop pool IDs • target_name: desktop pool names • ALL: all desktops • target_id: default-apply-all-targets • target_name: All-Targets

Table 4-1584 Policies

Parameter	Type	Description
peripherals	peripherals object	Peripheral.
audio	audio object	Audio.
client	client object	Client.
display	display object	Display.
file_and_clipboard	file_and_clipboard object	Files and clipboards.
session	Session object	Sessions.
virtual_channel	VirtualChannel object	Virtual channels.

Parameter	Type	Description
watermark	Watermark object	Watermarking.
keyboard_mouse	keyboard_mouse object	Keyboards and mouse devices.
seamless	seamless object	Audio/Video bypass.
personalized_data_mgmt	personalized_data_mgmt object	Personalized data management.
custom	custom object	Custom policy.
record_audit	record_audit object	Screen recording audit.

Table 4-1585 peripherals

Parameter	Type	Description
usb_custom_policy_debug	String	Device debugging policy.
usb_port_redirection	usb_port_redirection object	USB port redirection.
device_redirection	device_redirection object	Device redirection.
usb_device_common	usb_device_common object	USB and device smartcard options.
serial_port_redirection	serial_port_redirection object	Serial port redirection.
parallel_port_redirection	parallel_port_redirection object	Parallel port redirection.
driver_interface_redirection	driver_interface_redirection object	Driver interface redirection.

Table 4-1586 usb_port_redirection

Parameter	Type	Description
usb_enable	Boolean	Whether to enable USB port redirection. Options: false : disable; true : enable

Parameter	Type	Description
options	options object	USB port redirection options.

Table 4-1587 options

Parameter	Type	Description
usb_image_enable	Boolean	Whether to enable image devices, such as scanners. Options: false : disable; true : enable
usb_video_enable	Boolean	Whether to enable video devices, such as cameras. Options: false : disable; true : enable
usb_printer_enable	Boolean	Whether to enable print devices, such as printers. Options: false : disable; true : enable
usb_storage_enable	Boolean	Whether to enable storage devices, such as USB flash drives. Options: false : disable; true : enable
wireless_devices_enable	Boolean	Whether to enable wireless devices, such as Bluetooth. Options: false : disable; true : enable
network_devices_enable	Boolean	Whether to enable network devices, such as wireless NICs. Options: false : disable; true : enable
usb_smart_card_enable	Boolean	Whether to enable smartcard devices, such as USB keys. Options: false : disable; true : enable
other_usb_devices_enable	Boolean	Whether to enable the redirection of other USB devices. Options: false : disable; true : enable

Parameter	Type	Description
usb_redirection_customization_policy	String	Custom policy for USB port redirection. The value contains a maximum of 18,000 characters.
usb_redirection_mode	String	USB redirection mode. Options: Classical mode Common mode

Table 4-1588 device_redirection

Parameter	Type	Description
printer_redirection	printer_redirection object	Printer redirection.
session_printer	session_printer object	Session printer.
camera_redirection	camera_redirection object	Camera redirection.
twain_redirection_enable	Boolean	Whether to enable TWAIN device redirection. Options: false : disable; true : enable
image_compression_level	String	Image compression level. Options: none low (highest speed) medium (medium speed) high (lowest speed) lossless low-loss medium-loss high-loss
hid_redirection	hid_redirection object	Human interface device (HID) redirection.

Table 4-1589 printer_redirection

Parameter	Type	Description
printer_enable	Boolean	Whether to enable printer redirection. Options: false : disable; true : enable
options	options object	Printer redirection options.

Table 4-1590 options

Parameter	Type	Description
mobile_printer_enable	Boolean	Mobile client printer redirection. Options: false : disable; true : enable
print_data_compression_mode	Boolean	Whether to enable data compression. Options: false : disable; true : enable
sync_client_default_printer_enable	Boolean	Whether to enable default client printer synchronization. Options: false : disable; true : enable
universal_printer_driver	String	Universal printer driver. By default, choose Universal Printing PS for Linux clients and HDP XPSDrv Driver for Windows clients. Options: HDP XPSDrv Driver ; Universal Printing PCL 5 Universal Printing PCL 6 Universal Printing PS

Table 4-1591 session_printer

Parameter	Type	Description
session_printer_enable	Boolean	Whether to enable session printers. Options: false : disable; true : enable
options	options object	Session printer options.

Table 4-1592 options

Parameter	Type	Description
session_printer_customization_policy	String	Custom session printer policy. A maximum of 1,000 characters are allowed.

Table 4-1593 camera_redirection

Parameter	Type	Description
video_compress_enable	Boolean	Whether to enable camera redirection. Options: false : disable; true : enable
options	options object	Camera redirection options.

Table 4-1594 options

Parameter	Type	Description
camera_frame_rate	Integer	Camera frame rate (FPS). The value ranges from 1 to 30. Default: 15
camera_max_width	Integer	Camera maximum width (pixel). The value ranges from 1 to 9999. Default: 3000
camera_max_height	Integer	Camera maximum height (pixel). The value ranges from 1 to 9999. Default: 3000
camera_compression_method	String	Camera data compression method. The value is H.264 .

Table 4-1595 hid_redirection

Parameter	Type	Description
hid_redirection_enable	Boolean	Whether to enable HID redirection. Options: false : disable; true : enable
options	options object	HID options.

Table 4-1596 options

Parameter	Type	Description
hid_redirection_customization_policy	String	Custom HID redirection policy.

Table 4-1597 usb_device_common

Parameter	Type	Description
pssc_smart_card_enable	String	Whether to enable PC/SC smartcard redirection. Options: Enable: enabled Closed: closed Disable: disabled
common_options	common_options object	Options for both USB devices and device smartcards.

Table 4-1598 common_options

Parameter	Type	Description
remove_smart_card_disconnect_enable	Boolean	Whether to enable smartcard removal to log out of user sessions. Options: false: disable; true: enable

Table 4-1599 serial_port_redirection

Parameter	Type	Description
serial_port_enable	Boolean	Whether to enable serial port redirection. Options: false: disable; true: enable
options	options object	Serial port redirection options.

Table 4-1600 options

Parameter	Type	Description
auto_connect_enable	Boolean	Whether to enable automatic connection to client serial ports. Options: false : disable; true : enable

Table 4-1601 parallel_port_redirection

Parameter	Type	Description
parallel_port_enable	Boolean	Whether to enable parallel port redirection. Options: false : disable; true : enable

Table 4-1602 driver_interface_redirection

Parameter	Type	Description
api_redir_driver_list	String	Custom drivers. Enter one or more driver file names or full paths of driver files installed on terminals. Separate file names or paths with semicolons (;). A maximum of 1,000 characters are allowed.

Table 4-1603 audio

Parameter	Type	Description
audio_redirection_enable	Boolean	Whether to enable audio redirection. Options: false : disable; true : enable
play_volume	String	Playback volume. If this parameter is not specified, the value is Do Not Set Volume . Volume setting. The value ranges from 10 to 100, and the interval between two adjacent values is 5 in ascending order, for example, 10, 15, 20, and 25.

Parameter	Type	Description
play_volume_ratio	String	Playback volume ratio. Options: If this parameter is not specified, the value is Do Not Set Volume Ratio . Low Middle : medium High
record_volume	String	Recording volume. If this parameter is not specified, the value is Do Not Set Volume . Volume setting. The value ranges from 10 to 100, and the interval between two adjacent values is 5 in ascending order, for example, 10, 15, 20, and 25.
record_volume_ratio	String	Recording volume ratio. Options: If this parameter is not specified, the value is Do Not Set Volume Ratio . Low Middle : medium High
audio_transmission_mode	String	Audio transmission mode. Options: Reliable Transmission Real Time Transmission
play_redirection_enable	Boolean	Whether to enable playback redirection. Options: false : disable; true : enable
play_classification	String	Playback scenario. Options: Lossless Speech Call Music Play Automatic Identification
play_quality	String	Playback quality. Options: Low Middle : medium High

Parameter	Type	Description
play_denoising	String	Playback denoising. Options: Disabled. Enabled: The value ranges from -100 to -5, and the interval between two adjacent values is 5 in ascending order, for example, -100, -95, -90, and -85.
play_agc	String	Playback AGC. Options: Disabled. Enabled: The value ranges from 4,000 to 32,000. From 10,000 on, the interval between two adjacent values is 1,000 in ascending order, for example, 4,000, 6,000, 8,000, 10,000, 11,000, 12,000 and 13,000.
play_crc	String	Playback CRC. Options: Disable CRC Enable CRC
play_device_mode	String	Playback device mode. Options: Play Device In Shared Mode Play Device In Exclusive Mode
play_delay_thresh old	String	Playback delay threshold. The value ranges from 160 to 2,500. The values less than 400 are in ascending order with an interval of 40, and the values between 400 and 1,000 are in ascending order with an interval of 50. For example, the values can be as follows: 2,500, 2,000, 1,800, 1,500, 1,200, 1,000, 950, 900, 850.
play_amplitude_th reshold	String	Playback amplitude threshold. The values can be: 2,048, 4,096, 5,120, 6,144, 7,168, 8,192.
play_prefill_data	String	Playback prefill data. Options: Do Not Prefill Data ; Prefill Data : The value ranges from 50 to 2,000. The values less than 250 are in an ascending order with an interval of 50, and the values between 250 and 500 are in an ascending order with an interval of 100. For example, the values can be as follows: 2,000, 1,500, 1,000, 500, 400, 300, 250.

Parameter	Type	Description
record_redirection_enable	Boolean	Whether to enable recording redirection. Options: false : disable; true : enable
record_classification	String	Recording scenario. Options: Lossless Speech Call Music Record Automatic Identification
record_quality	String	Recording quality. Options: Low Middle : medium High
record_denoising	String	Recording denoising. Options: Disabled. Enabled: The value ranges from -100 to -5, and the interval between two adjacent values is 5 in ascending order, for example, -100, -95, -90, and -85.
record_agc	String	Recording AGC. Options: Disabled. Enabled: The value ranges from 4,000 to 32,000. From 10,000 on, the interval between two adjacent values is 1,000 in ascending order, for example, 4,000, 6,000, 8,000, 10,000, 11,000, 12,000 and 13,000.
record_crc	String	Recording CRC. Options: Disable CRC Enable CRC
record_device_mode	String	Recording device mode. Options: Record Device In Shared Mode Record Device In Exclusive Mode
record_delay_threshold	String	Recording delay threshold. The value ranges from 160 to 2,500. The values less than 400 are in ascending order with an interval of 40, and the values between 400 and 1,000 are in ascending order with an interval of 50. For example, the values can be as follows: 2,500, 2,000, 1,800, 1,500, 1,200, 1,000, 950, 900, 850.

Parameter	Type	Description
record_amplitude_threshold	String	Recording amplitude threshold. The values can be: 2,048, 4,096, 5,120, 6,144, 7,168, 8,192.

Table 4-1604 client

Parameter	Type	Description
automatic_reconnection_interval	Integer	Automatic reconnection interval, in second. The value ranges from 1 to 50. Default: 5
session_persistence_time	Integer	Session persistence duration, in second. The value ranges from 0 to 180. Default: 180
autoclose_monitor_after_locked	Boolean	Automatic monitor shutdown after screen locking. Options: false : disable; true : enable
autoclose_monitor_options	autoclose_monitor_options object	Options for automatic monitor shutdown.
forbid_screen_capture	Boolean	Whether to enable screen capture prevention. Options: false : disable; true : enable
client_machine_join_domain	Boolean	Whether to verify the domain of a terminal. false : disable; true : enable
client_type	client_type object	Terminal type login control.

Table 4-1605 autoclose_monitor_options

Parameter	Type	Description
autoclose_monitor_wait_time	Integer	Time before automatic monitor shutdown, in second. The value ranges from 10 to 600,000. Default: 300

Table 4-1606 client_type

Parameter	Type	Description
client_type_limit	Boolean	Whether to enable terminal type login control. false : disable; true : enable
options	options object	Options for terminal type login control.

Table 4-1607 options

Parameter	Type	Description
sc_type_window	Boolean	Whether to select the Windows client. Options: false : not selected true : selected
sc_type_mac	Boolean	Whether to select the macOS client. Options: false : not selected true : selected
sc_type_android	Boolean	Whether to select the Android client. Options: false : not selected true : selected
sc_type_linux	Boolean	Whether to select the Linux client. Options: false : not selected true : selected
sc_type_h5	Boolean	Whether to select the web client. Options: false : not selected true : selected
sc_type_ios	Boolean	Whether to select the iOS client. Options: false : not selected true : selected

Parameter	Type	Description
sc_type_harmony_os	Boolean	Whether to select the HarmonyOS client. Options: false : not selected true : selected
tc_type_all	Boolean	Whether to select all hardware terminals. Options: false : not selected true : selected

Table 4-1608 display

Parameter	Type	Description
display_level	String	Display level. Options: LEVEL 1 LEVEL 2 LEVEL 3 LEVEL 4 (default/recommended) LEVEL 5
options	options object	Display level options.
rendering_acceleration_enable	Boolean	Whether to enable rendering acceleration. Options: false : disable; true : enable
rendering_acceleration_options	rendering_acceleration_options object	Rendering acceleration options.
adaptive_bitrate_control_enable	Boolean	Whether to enable adaptive bitrate. Options: false : disable; true : enable
adaptive_bitrate_control_options	adaptive_bitrate_control_options object	Adaptive bitrate options.
video_card_memory_size	Integer	GPU card cache (MB). The value ranges from 0 to 64. Default: 64

Parameter	Type	Description
configuration1_enable	Boolean	Whether to enable configuration item 1. Options: false : disable; true : enable
driver_delegation_mode_enable	Boolean	Whether to enable driver delegation. Options: false : disable; true : enable
driver_delegation_latency	Integer	Driver delegation latency (x 30 ms). The value ranges from 1 to 100. Default: 80
video_latency	Integer	Driver delegation video latency (x 30 ms). The value ranges from 1 to 100. Default: 80
change_resolution_vm	Boolean	Whether to enable resolution change. Options: false : disable; true : enable
application_recognition	String	Application recognition. A maximum of 1,024 characters are allowed.
duplicate_display_enable	Boolean	Duplicate display. Options: false : disable; true : enable
default_mapping_order	String	Default screen mapping sequence. Default: 1, 2, 3, 4
duplicate_display_mode	String	Duplicate display mode. Options: One-to-One : Only one channel is supported. One-to-Many : Multiple channels are supported.

Table 4-1609 options

Parameter	Type	Description
display_bandwidth	Integer	Bandwidth (kbit/s). The value ranges from 256 to 25,000. Default: 20,000
frame_rate	Integer	Frame rate (FPS). The value ranges from 1 to 60. Default: 25

Parameter	Type	Description
video_frame_rate	Integer	Video frame rate (FPS). The value ranges from 1 to 60. Default: 30
min_image_cache	Integer	Minimum capacity for image cache (MB). The value ranges from 0 to 300. Default: 200
smoothing_factor	Integer	Lossy compression recognition threshold. The value ranges from 0 to 255. Default: 60
lossless_compression_mode	String	Lossless compression. Options: Basic Compression Deep Compression
deep_compression_options	deep_compression_options object	Deep compression options.
lossy_compression_quality	Integer	Lossy compression quality. The value ranges from 20 to 100. Default: 85
color_enhancement_enable	Boolean	Whether to enable color enhancement for office work. Options: false : disable; true : enable
quality_bandwidth_first	String	Quality/Bandwidth first. Options: Quality First Bandwidth First
video_bit_rate_options	video_bit_rate_options object	Video bitrate options.
peak_video_bit_rate	Integer	Peak video bitrate (kbit/s). The value ranges from 256 to 100,000. Default: 18,000
video_quality_options	video_quality_options object	Video quality options.
gop_size	Integer	GOP size. The value ranges from 0 to 65535. Default: 100

Parameter	Type	Description
encoding_preset	String	Encoding preset. Options: Preset 1 Preset 2 Preset 3 Preset 4 Preset 5 Preset 6 Preset 7

Table 4-1610 deep_compression_options

Parameter	Type	Description
deep_compression_level	String	Deep compression level. Options: Compression grade 0 Compression grade 1 Compression grade 2 Compression grade 3 Compression grade 4 Compression grade 5 Compression grade 6 Compression grade 7 Compression grade 8 Compression grade 9

Table 4-1611 video_bit_rate_options

Parameter	Type	Description
average_video_bit_rate	Integer	Average video bitrate (kbit/s). The value ranges from 256 to 100,000. Default: 18,000

Table 4-1612 video_quality_options

Parameter	Type	Description
average_video_quality	Integer	Average video quality. The value ranges from 5 to 59. Default: 15

Parameter	Type	Description
lowest_video_quality	Integer	Lowest video quality. The value ranges from 5 to 69. Default: 25
highest_video_quality	Integer	Highest video quality. The value ranges from 1 to 59. Default: 7

Table 4-1613 rendering_acceleration_options

Parameter	Type	Description
video_acceleration_enhancement_enable	Boolean	Whether to enable video acceleration enhancement. Options: false : disable; true : enable
video_optimization_enable	Boolean	Whether to enable video scene optimization. Options: false : disable; true : enable
gpu_color_optimization_enable	Boolean	Whether to enable GPU color optimization. Options: false : disable; true : enable
video_recognition_threshold	Integer	Video recognition threshold. The value ranges from 0 to 500. Default: 10
frame_rate_statistical_length	Integer	Frame rate statistical length. The value ranges from 2 to 100. Default: 4
image_quality_threshold	Integer	Image quality threshold. The value ranges from 0 to 100. Default: 0
refresh_frequency_threshold	Integer	Refresh frequency threshold. The value ranges from 1 to 100. Default: 3
exiting_video_area_threshold	Integer	Threshold of exiting the video area. The value ranges from 0 to 100. Default: 8
min_video_width	Integer	Minimum video width. The value ranges from 0 to 1,280. Default: 191
min_video_length	Integer	Minimum video height. The value ranges from 0 to 1,280. Default: 191

Parameter	Type	Description
single_frame_natural_percentage	String	Threshold of the single-frame natural image block percentage. The value ranges from 0.000001 to 1. Default: 0.3
cyclical_natural_images_number	Integer	Threshold of cyclical natural image quantity percentage. The value ranges from 0 to 100. Default: 2
non_natural_image_percentage	String	Threshold of the non-natural image area percentage. The value ranges from 0.000001 to 1. Default: 0.85
non_natural_images_number	Integer	Threshold of non-natural image quantity percentage. The value ranges from 0 to 100. Default: 25

Table 4-1614 adaptive_bitrate_control_options

Parameter	Type	Description
peak_bandwidth_suppression_enable	Boolean	Whether to enable peak bandwidth suppression. Options: false : disable; true : enable
expected_average_network_latency	Integer	Expected average network latency, in millisecond. The value ranges from 1 to 2,000. Default: 160
network_latency_threshold1	Integer	Network latency threshold 1 (ms). The value ranges from 1 to 2,000. Default: 160
network_latency_threshold2	Integer	Network latency threshold 2 (ms). The value ranges from 1 to 2,000. Default: 300
min_dynamic_frame_rate	Integer	Minimum dynamic frame rate (FPS). The value ranges from 1 to 60. Default: 17
min_dynamic_frame_rate_lv1	Integer	Minimum dynamic frame rate level 1 (FPS). The value ranges from 1 to 60. Default: 17
min_dynamic_frame_rate_lv2	Integer	Minimum dynamic frame rate level 2 (FPS). The value ranges from 1 to 60. Default: 10

Parameter	Type	Description
rtt_threshold	Integer	Frame rate control parameter 1. The value ranges from 0 to 1,000. Default: 20
min_add_framerate	Integer	Frame rate control parameter 2. The value ranges from 0 to 120. Default: 8
max_add_framerate	Integer	Frame rate control parameter 3. The value ranges from 0 to 120. Default: 20
sub_framerate	Integer	Frame rate control parameter 4. The value ranges from 0 to 120. Default: 25
adaptive_bandwidth_lower_limit	Integer	Adaptive bandwidth lower limit, in kbit/s. The value ranges from 100 to 20,000. Default: 500
adaptive_compression_quality_lower_limit	Integer	Lower limit of adaptive lossy compression quality. The value ranges from 1 to 100. Default: 60
adaptive_compression_quality_upper_limit	Integer	Upper limit of adaptive lossy compression quality. The value ranges from 1 to 100. Default: 85
adaptive_compression_quality_increase_limit	Integer	Increase limit of adaptive lossy compression quality. The value ranges from 1 to 100. Default: 5
adaptive_compression_quality_decrease_limit	Integer	Decrease limit of adaptive lossy compression quality. The value ranges from 1 to 100. Default: 10
adaptive_average_quality_lower_limit	Integer	Lower limit of adaptive average video quality. The value ranges from 5 to 50. Default: 15
adaptive_average_quality_upper_limit	Integer	Upper limit of adaptive average video quality. The value ranges from 5 to 50. Default: 25
adaptive_average_quality_increase_limit	Integer	Increase limit of adaptive average video quality. The value ranges from 1 to 50. Default: 3
adaptive_average_quality_decrease_limit	Integer	Decrease limit of adaptive average video quality. The value ranges from 1 to 50. Default: 1
adaptive_min_quality_lower_limit	Integer	Lower limit of adaptive minimum video quality. The value ranges from 5 to 69. Default: 25

Parameter	Type	Description
adaptive_min_quality_upper_limit	Integer	Upper limit of adaptive minimum video quality. The value ranges from 5 to 69. Default: 30
adaptive_min_quality_increase_limit	Integer	Increase limit of adaptive minimum video quality. The value ranges from 1 to 50. Default: 3
adaptive_min_quality_decrease_limit	Integer	Decrease limit of adaptive minimum video quality. The value ranges from 1 to 50. Default: 1

Table 4-1615 file_and_clipboard

Parameter	Type	Description
file_redirection	file_redirection object	File redirection.
clip_length_limit_flag_c2s	Boolean	Clipboard length.
clip_length_limit_client_c2s	Integer	Client clipboard length.
clip_length_limit_flag_s2c	Boolean	Clipboard length.
clip_length_limit_client_s2c	Integer	Client clipboard length.
fd_mobile_client_redirection_enable	Boolean	Whether to enable mobile client file redirection. Options: false : disable; true : enable
clipboard_redirection	String	Clipboard redirection. Options: DISABLED (default) SERVER_TO_CLIENT_ENABLED (from the server to the client) CLIENT_TO_SERVER_ENABLED (from the client to the server) TWO_WAY_ENABLED (two-way)
clipboard_redirection_options	clipboard_redirection_options object	Clipboard redirection options.

Table 4-1616 file_redirection

Parameter	Type	Description
redirection_mode	String	File redirection. Options: DISABLED (default) READ_ONLY READ_AND_WRITE
options	options object	File redirection options.
vm_send_file_client	Boolean	Whether to enable the function of sending files from the VM to the client. Options: false : disable; true : enable
redirection_send_file_options	redirection_send_file_options object	Options for both redirection and file sending.

Table 4-1617 options

Parameter	Type	Description
fluid_control_switch_enable	Boolean	Whether to enable rate limit. Options: false : disable; true : enable
fluid_control_options	fluid_control_options object	Rate limit options.
compression_switch_enable	Boolean	Whether to enable compression. Options: false : disable; true : enable
compression_switch_options	compression_switch_options object	Compression options.
linux_file_size_supported_enable	Boolean	Whether to enable the function of setting the file size in Linux. Options: false : disable; true : enable
linux_file_size_supported_options	linux_file_size_supported_options object	Options for setting the file size in Linux.

Parameter	Type	Description
linux_root_mount_switch_enable	Boolean	Whether to enable root directory mount in Linux. Options: false : disable; true : enable
linux_root_dir_list	String	Mount path of the Linux root directory. Default: \var\log
linux_file_mount_path	String	Mount path of the Linux file system. Default: \media\Volumes\swdb\mnt\home\storage\tmp\run\media
linux_fixed_drive_file_system_format	String	Linux fixed driver file system format.
linux_removable_drive_file_system_format	String	Linux removable driver file system format. Default: vfat ntfs msdos fuseblk sdcardfs exfat fuse.fdir lifs
linux_cdrom_drive_file_system_format	String	Linux CD-ROM driver file system format. Default: cd9660 iso9660 udf
linux_network_drive_file_system_format	String	Linux network driver file system format. Default: smbfs afpfs cifs
path_separator	String	Path separator. Default:
fixed_drive_enable	Boolean	Whether to enable fixed drivers (such as local disks). Options: false : disable; true : enable
removable_drive_enable	Boolean	Whether to enable removable drivers (such as USB flash drives). Options: false : disable; true : enable
cd_rom_drive_enable	Boolean	Whether to enable CD-ROM drivers. Options: false : disable; true : enable
network_drive_enable	Boolean	Whether to enable network drivers. Options: false : disable; true : enable

Table 4-1618 fluid_control_options

Parameter	Type	Description
good_network_latency	Integer	Good network latency threshold (ms). The value ranges from 1 to 1,000. Default: 30
normal_network_latency	Integer	Normal network latency threshold (ms). The value ranges from 1 to 1,000. Default: 70
poor_network_latency	Integer	Poor network latency threshold (ms). The value ranges from 1 to 1,000. Default: 100
reducing_step	Integer	Reducing step (KB). The value ranges from 1 to 100. Default: 20
slow_increasing_step	Integer	Slow increasing step (KB). The value ranges from 1 to 100. Default: 10
quick_increasing_step	Integer	Quick increasing step (KB). The value ranges from 1 to 100. Default: 20
start_speed	Integer	Initial transmission speed (KB/s). The value ranges from 1 to 10,240. Default: 1,024
test_block_size	Integer	Speed test block size (KB). The value ranges from 64 to 1,024. Default: 64
test_time_gap	Integer	Speed test block interval (ms). The value ranges from 1,000 to 100,000. Default: 10,000

Table 4-1619 compression_switch_options

Parameter	Type	Description
compression_threshold	Integer	Compression threshold (byte). The value ranges from 0 to 10,240. Default: 512
minimum_compression_rate	Integer	Minimum compression rate. The value ranges from 0 to 1,000. Default: 900

Table 4-1620 linux_file_size_supported_options

Parameter	Type	Description
linux_file_size_supported_threshold	Integer	File size threshold in Linux (byte). The value ranges from 0 to 4,096. Default: 100

Table 4-1621 redirection_send_file_options

Parameter	Type	Description
read_write_speed	Integer	Read/Write speed (kbit/s). The value ranges from 0 to 2147483647. Default: 0

Table 4-1622 clipboard_redirection_options

Parameter	Type	Description
rich_text_redirection_enable	Boolean	Whether to enable clipboard rich text redirection. Options: false : disable; true : enable
clipboard_file_redirection_enable	Boolean	Whether to enable clipboard file redirection. Options: false : disable; true : enable

Table 4-1623 Session

Parameter	Type	Description
vdi	Vdi object	VDI.
self_help_console	Boolean	Whether to enable preemption login to the self-help console. Options: false : disable; true : enable
disconnect_on_lock_flag	Boolean	Whether to disconnect after the screen is locked.
auto_lock_start_time	String	Start time when the lock takes effect. The format is hh:mm:ss.
auto_lock_end_time	String	Start time when the lock takes effect. The format is hh:mm:ss.

Table 4-1624 Vdi

Parameter	Type	Description
auto_lock_enable	Boolean	Whether to enable automatic screen locking. Options: false : disable; true : enable
auto_lock_options	AutoLockOptions object	Options available after automatic screen locking is enabled.
disconnect_logout_enable	Integer	Whether to enable automatic logout upon disconnection. Options: 0 : disable; 1 : enable
disconnect_logout_options	DisconnectLogoutOptions object	Options available after automatic logout upon disconnection is enabled.
disconnect_hibernate_enable	Boolean	Whether to enable automatic logout upon disconnection. Options: 0 : disable; 1 : enable
disconnect_hibernate_options	disconnect_hibernate_options object	Options for hibernation upon disconnection.
no_operation_hibernate_enable	Boolean	Whether to enable automatic logout upon disconnection. Options: 0 : disable; 1 : enable
no_operation_hibernate_options	no_operation_hibernate_options object	Do not select the hibernation option.

Table 4-1625 AutoLockOptions

Parameter	Type	Description
auto_lock_minutes	Integer	Time before screen locking, in minute. The value ranges from 3 to 86,400. Default: 10
auto_disconnect	String	Automatic disconnection or logout. Options: AUTO_DISCONNECT (automatic disconnection); AUTO_LOGOUT (automatic logout); DISABLED (disabled); AUTO_RESTART (default, automatic restart); AUTO_STOP (automatic shutdown); HIBERNATE (hibernation)
options	AutoDisconnectOrLogoutControlOptions object	Options available after automatic disconnection or automatic logout is enabled.

Table 4-1626 AutoDisconnectOrLogoutControlOptions

Parameter	Type	Description
auto_disconnect_minutes	Integer	Time before disconnection or logout, in minute. The value ranges from 1 to 86,400. Default: 1,440

Table 4-1627 DisconnectLogoutOptions

Parameter	Type	Description
disconnect_logout_minutes	Integer	Time before automatic logout upon disconnection, in minute. The value ranges from 3 to 86,400. Default: 10

Table 4-1628 disconnect_hibernate_options

Parameter	Type	Description
disconnect_hibernate_minutes	Integer	Hibernation duration upon disconnection.

Table 4-1629 no_operation_hibernate_options

Parameter	Type	Description
no_operation_hibernate_minutes	Integer	Policy group ID.

Table 4-1630 VirtualChannel

Parameter	Type	Description
virtual_channel_control_enable	Boolean	Whether to enable the virtual channel policy. Options: false : disable; true : enable
options	VirtualChannelOptions object	Virtual channel policy options.

Table 4-1631 VirtualChannelOptions

Parameter	Type	Description
custom_virtual_channel_name	String	Custom registered virtual channel name. Currently, only ASCII characters are supported. The value can contain a maximum of 65,535 characters.
virtual_channel_plugin_details	String	Virtual channel download details (Base64-encoded). Before encryption, only ASCII characters are supported. The value can contain a maximum of 65,535 characters.
third_party_plugin_name	String	Third-party plug-in name. The value can contain a maximum of 65,535 characters.

Table 4-1632 Watermark

Parameter	Type	Description
watermark_enable	Boolean	Indicates whether to enable the watermark policy. Options: false : disable; true : enable
options	WatermarkOptions object	Watermark policy options.

Table 4-1633 WatermarkOptions

Parameter	Type	Description
show_style	String	Display mode. Options: FIXED (fixed position); RANDOM (random motion)
color	String	Color. Format: RRGGBB . Default: 2a2a2a
font_size	Integer	Font size. The value ranges from 1 to 200. Default: 30
opacity_setting	String	Opacity (%). The value ranges from 0 to 100. Default: 12.5
content_item_count	Integer	Number of watermarks. The value ranges from 1 to 30. Default: 1
display_format	String	Watermark content display format.
lean	Integer	Tilt. The value ranges from -90 to 90. Default: -45

Parameter	Type	Description
content_customized	String	Custom content, which cannot contain special characters such as >.
content_color	String	Content color.
watermark_security_access	Boolean	Whether to enable the security-first mode.
user_extend_info_switch	Boolean	Whether to enable extended user information. false : disable; true : enable
user_extend_info	String	Extended user information.

Table 4-1634 keyboard_mouse

Parameter	Type	Description
mouse_feedback	String	VM mouse device feedback. Options: SELFADAPTION : adaptive mouse device feedback FORCE : forcible mouse device feedback CLOSE : no mouse device feedback
mouse_simulation_mode	String	VM mouse device simulation mode. Options: ABSOLUTE_POSITION : absolute position simulation RELATIVE_POSITION : relative position simulation
external_cursor_feedback	Boolean	Whether to enable VM external cursor feedback. Options: false : disable; true : enable
selfhelp_console_enable	Boolean	Whether to enable preemption login to the self-help console. Options: false : disable; true : enable
client_mouse_send_interval	Integer	Interval for sending mouse device operations on the client. The value ranges from 1 to 30. Default: 30

Parameter	Type	Description
windows_client_keyboard_mode	String	Windows client keyboard mode. Options: GLOBAL : global mode for Windows client keyboards (default) WINDOW : windowed mode for for Windows client keyboards
windows_client_mouse_mode	String	Windows client mouse device mode. Options: GLOBAL : global mode for Windows client mouse devices WINDOW : windowed mode for Windows client mouse devices (default)
linux_client_keyboard_mode	String	Linux client keyboard mode. Options: EVENT : event mode for Linux client keyboards (default) GRAPH : graphics mode for Linux client keyboards
linux_client_mouse_mode	String	Linux client mouse device mode. Options: EVENT : event mode for Linux client mouse devices (default) GRAPH : graphics mode for Linux client mouse devices
special_keyboard	Boolean	Special keyboard. Options: false : disable; true : enable
joy_stick_flag	Boolean	Joystick. Options: false : disable; true : enable

Table 4-1635 seamless

Parameter	Type	Description
seamless_enable	Boolean	Whether to enable audio/video bypass. Options: false : disable; true : enable
options	options object	General audio/video settings.

Table 4-1636 options

Parameter	Type	Description
seamless_apply_path	String	Software path. A maximum of 1,000 characters are allowed.

Table 4-1637 personalized_data_mgmt

Parameter	Type	Description
personalized_data_mgmt_path	String	Personalized data management path.
user_data_roaming_enable	Boolean	User data roaming.
user_data_roaming_options	user_data_roaming_options object	User data roaming options.
user_folder_redirection_enable	Boolean	Enables user folder redirection.
user_folder_redirection_options	user_folder_redirection_options object	User folder redirection options.
logoff_delete_user_configuration	Boolean	Enables user folder redirection.
network_drive_mapping_enable	Boolean	Enables user folder redirection.
network_drive_mapping_options	network_drive_mapping_options object	Network driver mapping options.

Table 4-1638 user_data_roaming_options

Parameter	Type	Description
profile_streaming_enable	Boolean	Whether to enable profile streaming.
roamed_files_local_path	String	Local path of roamed files.
exclude_folders_path	String	Path of an excluded folder.
roaming_registry_method	String	Path of an excluded folder.

Parameter	Type	Description
roaming_registry_path	String	Path of roaming registration.

Table 4-1639 user_folder_redirection_options

Parameter	Type	Description
restore_local_directories_enable	Boolean	Enables the restoration of local directories.
appData_roaming_enable	Boolean	Enables application data roaming.
redirec_desktop	Boolean	Desktop redirection.
redirec_start_menu	Boolean	Start menu.
redirec_documents	Boolean	Document.
redirec_pictures	Boolean	Photo.
redirec_music	Boolean	Music.
redirec_videos	Boolean	Audio recording.
redirec_favorites	Boolean	Favorite.
redirec_contacts	Boolean	Audio recording.
redirec_downloads	Boolean	Download.
redirec_links	Boolean	Link
redirec_searches	Boolean	Search.
redirec_saved_games	Boolean	Game storage.

Table 4-1640 network_drive_mapping_options

Parameter	Type	Description
network_drive_mapping_path	String	Network drive mapping path.
drive_letter	String	Path of an excluded folder.

Table 4-1641 custom

Parameter	Type	Description
custom_configuration1_enable	Boolean	Whether to enable custom configuration.
options	options object	General audio/video settings.

Table 4-1642 options

Parameter	Type	Description
custom_configuration1_rule	String	Custom configuration rule.

Table 4-1643 record_audit

Parameter	Type	Description
enable	Boolean	Whether to enable screen recording audit. Options: false : disable; true : enable
rules	rules object	Screen recording rules.
storage_type	String	Storage type. Options: OBS : OBS bucket SFTP : SFTP interconnection
obs_bucket_source	String	OBS bucket source. Options: AUTO_CREATE : automatically created CREATED : created
obs_bucket_name	String	OBS bucket name
retention_duration	Integer	Retention period of a screen recording file, in days. The value ranges from 1 to 180. 0 indicates that the file is retained permanently.

Table 4-1644 rules

Parameter	Type	Description
rule	RecordAuditRule object	Rule.

Table 4-1645 RecordAuditRule

Parameter	Type	Description
record_type	String	Recording type. Options: whole : continuous screen recording interval : interval screen recording userOperations : screen recording by users sessionMonitoring : screen recording of the session lifecycle
interval_record_start_time	String	Start time of interval-based screen recording. This parameter is valid only when interval is used. The format is hh:mm.
interval_record_end_time	String	End time of interval-based screen recording. This parameter is valid only when interval is used. The format is hh:mm.
op_type	String	Operation triggering type. This parameter is valid only when userOperations is used. Options: input : Screen recording is started once the user enters content. filecopy : Screen recording is started once the user copies a file.
audio_record	Boolean	Whether to enable audio recording. Options: false : disable; true : enable
fps	String	Recording frame rate. The value can be 2, 5, 10, or 15 .
duration	String	Duration of a single video recording file, in minutes. The value can be 10, 20, 30, or 60 .
resolution	String	Resolution settings. The value can be 720P, 1080P, or original .
event_enable	Boolean	Whether to enable key event audit. Options: false : disabled true : enabled
file_suffix	String	File name extension. Use vertical bars () to separate multiple file name extensions.

Parameter	Type	Description
regit_paths	String	Registry path. Use vertical bars () to separate multiple registry paths.
app_filter_type	String	Application filtering type. The value can be black (blacklist) or white (whitelist).
app_white_list	String	Enables or disables the application whitelist. If it is enabled, only the whitelisted applications are monitored.
app_black_list	String	Enables or disables the application blacklist. Blacklisted applications will be ignored.

Status code: 400**Table 4-1646** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401**Table 4-1647** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403

Table 4-1648 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-1649** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 405**Table 4-1650** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500

Table 4-1651 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 503**Table 4-1652** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
GET /v2/29dfe82ada564ac2b927e1ff036d9a9b/policy-groups/8885bcc45da1f762015da20130a10000
```

Example Responses

Status code: 200

Response to policy group information query.

```
{
  "policy_group" : {
    "policy_group_id" : "string",
    "policy_group_name" : "string",
    "priority" : 1,
    "update_time" : "string",
    "description" : "string",
    "targets" : [ {
      "target_id" : "string",
      "target_name" : "string",
      "target_type" : "string"
    } ],
    "policies" : {
      "peripherals" : {
        "usb_custom_policy_debug" : "string",
        "usb_port_redirection" : {
          "usb_enable" : true,
          "options" : {
            "usb_image_enable" : true,

```

```

"usb_video_enable" : true,
"usb_printer_enable" : true,
"usb_storage_enable" : false,
"wireless_devices_enable" : false,
"network_devices_enable" : false,
"usb_smart_card_enable" : true,
"other_usb_devices_enable" : false,
"usb_redirection_customization_policy" : "string",
"usb_redirection_mode" : "Common mode"
}
},
"device_redirection" : {
"printer_redirection" : {
"printer_enable" : true,
"options" : {
"mobile_printer_enable" : false,
"print_data_compression_mode" : false,
"sync_client_default_printer_enable" : true,
"universal_printer_driver" : "Default"
}
},
"session_printer" : {
"session_printer_enable" : false,
"options" : {
"session_printer_customization_policy" : "string"
}
},
"camera_redirection" : {
"video_compress_enable" : true,
"options" : {
"camera_frame_rate" : 15,
"camera_max_width" : 3000,
"camera_max_height" : 3000,
"camera_compression_method" : "H.264"
}
},
"twain_redirection_enable" : true,
"image_compression_level" : "medium",
"hid_redirection" : {
"hid_redirection_enable" : false,
"options" : {
"hid_redirection_customization_policy" : "string"
}
},
"usb_device_common" : {
"pcsc_smart_card_enable" : "Disable",
"common_options" : {
"remove_smart_card_disconnect_enable" : false
}
},
"serial_port_redirection" : {
"serial_port_enable" : false,
"options" : {
"auto_connect_enable" : false
}
},
"parallel_port_redirection" : {
"parallel_port_enable" : false
},
"driver_interface_redirection" : {
"api_redir_driver_list" : "string"
}
},
"audio" : {
"audio_redirection_enable" : true,
"play_volume" : "Do Not Set Volume",
"play_volume_ratio" : "Do Not Set Volume Ratio",
"record_volume" : "100",

```



```

"record_volume_ratio" : "Do Not Set Volume Ratio",
"audio_transmission_mode" : "Reliable Transmission",
"play_redirection_enable" : true,
"play_classification" : "Music Play",
"play_quality" : "Middle",
"play_denoising" : "Disable Denoising",
"play_agc" : "Disable AGC",
"play_crc" : "Disable CRC",
"play_device_mode" : "Play Device In Shared Mode",
"play_delay_threshold" : "240",
"play_amplitude_threshold" : "4096",
"play_prefill_data" : "Do Not Prefill Data",
"record_redirection_enable" : true,
"record_classification" : "Speech Call",
"record_quality" : "Middle",
"record_denoising" : "-25",
"record_agc" : "Disable AGC",
"record_crc" : "Disable CRC",
"record_device_mode" : "Record Device In Shared Mode",
"record_delay_threshold" : "200",
"record_amplitude_threshold" : "4096"
},
"client" : {
"automatic_reconnection_interval" : 5,
"session_persistence_time" : 180,
"autoclose_monitor_after_locked" : false,
"autoclose_monitor_options" : {
"autoclose_monitor_wait_time" : 300
},
"forbid_screen_capture" : false,
"client_machine_join_domain" : true,
"client_type" : {
"client_type_limit" : true,
"options" : {
"sc_type_window" : true,
"sc_type_mac" : true,
"sc_type_android" : true,
"sc_type_linux" : true,
"sc_type_h5" : true,
"sc_type_ios" : true,
"sc_type_harmony_os" : true,
"tc_type_all" : true
}
}
},
"display" : {
"display_level" : "LEVEL4",
"options" : {
"display_bandwidth" : 20000,
"frame_rate" : 25,
"video_frame_rate" : 30,
"min_image_cache" : 200,
"smoothing_factor" : 60,
"lossless_compression_mode" : "Basic Compression",
"deep_compression_options" : {
"deep_compression_level" : "Compression grade 0"
},
"lossy_compression_quality" : 85,
"color_enhancement_enable" : false,
"quality_bandwidth_first" : "Quality First",
"video_bit_rate_options" : {
"average_video_bit_rate" : 18000
},
"peak_video_bit_rate" : 18000,
"video_quality_options" : {
"average_video_quality" : 15,
"lowest_video_quality" : 25,
"highest_video_quality" : 7
},
}
}
}

```

```

    "gop_size" : 100,
    "encoding_preset" : "Preset 1"
  },
  "rendering_acceleration_enable" : false,
  "rendering_acceleration_options" : {
    "video_acceleration_enhancement_enable" : true,
    "video_optimization_enable" : false,
    "gpu_color_optimization_enable" : false,
    "video_recognition_threshold" : 10,
    "frame_rate_statistical_length" : 4,
    "image_quality_threshold" : 0,
    "refresh_frequency_threshold" : 3,
    "exiting_video_area_threshold" : 8,
    "min_video_width" : 191,
    "min_video_length" : 191,
    "single_frame_natural_percentage" : "0.3",
    "cyclical_natural_images_number" : 2,
    "non_natural_image_percentage" : "0.85",
    "non_natural_images_number" : 25
  },
  "adaptive_bitrate_control_enable" : false,
  "adaptive_bitrate_control_options" : {
    "peak_bandwidth_suppression_enable" : false,
    "expected_average_network_latency" : 160,
    "network_latency_threshold1" : 160,
    "network_latency_threshold2" : 300,
    "min_dynamic_frame_rate" : 17,
    "min_dynamic_frame_rate_lv1" : 17,
    "min_dynamic_frame_rate_lv2" : 10,
    "rtt_threshold" : 20,
    "min_add_framerate" : 8,
    "max_add_framerate" : 20,
    "sub_framerate" : 25,
    "adaptive_bandwidth_lower_limit" : 500,
    "adaptive_compression_quality_lower_limit" : 60,
    "adaptive_compression_quality_upper_limit" : 85,
    "adaptive_compression_quality_increase_limit" : 5,
    "adaptive_compression_quality_decrease_limit" : 10,
    "adaptive_average_quality_lower_limit" : 15,
    "adaptive_average_quality_upper_limit" : 25,
    "adaptive_average_quality_increase_limit" : 3,
    "adaptive_average_quality_decrease_limit" : 1,
    "adaptive_min_quality_lower_limit" : 25,
    "adaptive_min_quality_upper_limit" : 30,
    "adaptive_min_quality_increase_limit" : 3,
    "adaptive_min_quality_decrease_limit" : 1
  },
  "video_card_memory_size" : 64,
  "configuration1_enable" : false,
  "driver_delegation_mode_enable" : false,
  "driver_delegation_latency" : 80,
  "video_latency" : 80,
  "change_resolution_vm" : false,
  "application_recognition" : "string",
  "duplicate_display_enable" : false,
  "default_mapping_order" : "1,2,3,4",
  "duplicate_display_mode" : "One-to-One"
},
"file_and_clipboard" : {
  "file_redirection" : {
    "redirection_mode" : "DISABLED",
    "options" : {
      "fluid_control_switch_enable" : false,
      "fluid_control_options" : {
        "good_network_latency" : 30,
        "normal_network_latency" : 70,
        "poor_network_latency" : 100,
        "reducing_step" : 20,
        "slow_increasing_step" : 10,

```

```

    "quick_increasing_step" : 20,
    "start_speed" : 1024,
    "test_block_size" : 64,
    "test_time_gap" : 10000
  },
  "compression_switch_enable" : false,
  "compression_switch_options" : {
    "compression_threshold" : 512,
    "minimum_compression_rate" : 900
  },
  "linux_file_size_supported_enable" : true,
  "linux_file_size_supported_options" : {
    "linux_file_size_supported_threshold" : 100
  },
  "linux_root_mount_switch_enable" : true,
  "linux_root_dir_list" : "\\\var\\log",
  "linux_file_mount_path" : "\\\media\\Volumes\\swdb\\mnt\\home\\storage\\tmp\\
run\\media",
  "linux_fixed_drive_file_system_format" : "string",
  "linux_removable_drive_file_system_format" : "vfat|ntfs|msdos|fuseblk|sdcardfs|exfat|fuse.fdir|lifs",
  "linux_cdrom_drive_file_system_format" : "cd9660|iso9660|udf",
  "linux_network_drive_file_system_format" : "smbfs|afpfs|cifs",
  "path_separator" : "|",
  "fixed_drive_enable" : true,
  "removable_drive_enable" : true,
  "cd_rom_drive_enable" : true,
  "network_drive_enable" : true
},
"vm_send_file_client" : true,
"redirection_send_file_options" : {
  "read_write_speed" : 0
}
},
"clip_length_limit_flag_c2s" : true,
"clip_length_limit_c2s" : 180,
"clip_length_limit_flag_s2c" : true,
"clip_length_limit_s2c" : 180,
"fd_mobile_client_redir_enable" : true,
"clipboard_redirection" : "DISABLED",
"clipboard_redirection_options" : {
  "rich_text_redirection_enable" : true,
  "clipboard_file_redirection_enable" : true
}
},
"session" : {
  "vdi" : {
    "auto_lock_enable" : true,
    "auto_lock_options" : {
      "auto_lock_minutes" : 10,
      "auto_disconnect" : "DISABLED",
      "options" : {
        "auto_disconnect_minutes" : 1440
      }
    },
    "disconnect_logout_enable" : 0,
    "disconnect_logout_options" : {
      "disconnect_logout_minutes" : 10
    },
    "disconnect_hibernate_enable" : false,
    "disconnect_hibernate_options" : {
      "disconnect_hibernate_minutes" : 0
    },
    "no_operation_hibernate_enable" : false,
    "no_operation_hibernate_options" : {
      "no_operation_hibernate_minutes" : 0
    }
  },
  "self_help_console" : true,
  "disconnect_on_lock_flag" : false
}

```

```

},
"virtual_channel" : {
  "virtual_channel_control_enable" : false,
  "options" : {
    "custom_virtual_channel_name" : "string",
    "virtual_channel_plugin_details" : "string",
    "third_party_plugin_name" : "string"
  }
},
"watermark" : {
  "watermark_enable" : false,
  "options" : {
    "show_style" : "RANDOM",
    "color" : "2a2a2a",
    "font_size" : 30,
    "opacity_setting" : "12.5",
    "content_item_count" : 1,
    "display_format" : "{\AlignMode\":"left"\,DateTimeFormat\":"DT"\,DateFormat\":"yyyy-mm-dd
\,TimeFormat\":"hh:mm:ss"\,RepeatCount\":"2"\,RepeatInterval\":"10"\,DisplayFormat\":"
{\Content1\":"CustomContent"\,Interval1\":"n"\,Content2\":"UserName
\,Interval2\":"4"\,Content3\":"DateTime\"}",
    "lean" : -45,
    "content_customized" : "string",
    "content_color" : 522857002,
    "watermark_security_access" : false,
    "user_extend_info_switch" : false,
    "user_extend_info" : "string"
  }
},
"keyboard_mouse" : {
  "mouse_feedback" : "SELFADAPTION",
  "mouse_simulation_mode" : "ABSOLUTE_POSITION",
  "external_cursor_feedback" : false,
  "selfhelp_console_enable" : true,
  "client_mouse_send_interval" : 30,
  "windows_client_keyboard_mode" : "GLOBAL",
  "windows_client_mouse_mode" : "WINDOW",
  "linux_client_keyboard_mode" : "EVENT",
  "linux_client_mouse_mode" : "EVENT",
  "special_keyboard" : false,
  "joy_stick_flag" : false
},
"seamless" : {
  "seamless_enable" : false,
  "options" : {
    "seamless_apply_path" : "string"
  }
},
"personalized_data_mgmt" : {
  "personalized_data_mgmt_path" : "string",
  "user_data_roaming_enable" : false,
  "user_data_roaming_options" : {
    "profile_streaming_enable" : false,
    "roamed_files_local_path" : "string",
    "exclude_folders_path" : "string",
    "roaming_registry_method" : "string",
    "roaming_registry_path" : "string"
  }
},
"user_folder_redirection_enable" : false,
"user_folder_redirection_options" : {
  "restore_local_directories_enable" : false,
  "appData_roaming_enable" : false,
  "redirec_desktop" : false,
  "redirec_start_menu" : false,
  "redirec_documents" : false,
  "redirec_pictures" : false,
  "redirec_music" : false,
  "redirec_videos" : false,
  "redirec_favorites" : false,

```


Error Codes

See [Error Codes](#).

4.14.5 Modifying a Policy Group

Function

Modifies information about a specified policy group.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT /v2/{project_id}/policy-groups/{policy_group_id}

Table 4-1653 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
policy_group_id	Yes	String	Policy group ID.

Request Parameters

Table 4-1654 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body, for example, application/json .

Table 4-1655 Request body parameters

Parameter	Mandatory	Type	Description
policy_group	No	PolicyGroupForUpdate object	Protocol policy group to be modified.

Table 4-1656 PolicyGroupForUpdate

Parameter	Mandatory	Type	Description
policy_group_name	No	String	Policy group name, which contains a maximum of 255 characters.
description	No	String	Policy group description, which contains a maximum of 255 characters.
priority	No	Integer	Priority.
targets	No	Array of Target objects	Objects to which a policy applies.
policies	No	Policies object	Policy.

Table 4-1657 Target

Parameter	Mandatory	Type	Description
target_id	No	String	Object ID.
target_name	No	String	Object name. The value can contain a maximum of 55 characters.

Parameter	Mandatory	Type	Description
target_type	No	String	Object type. <ul style="list-style-type: none"> ● INSTANCE: desktops ● target_id: desktop SIDs ● target_name: desktop names ● USER: users ● target_id: user IDs ● target_name: usernames ● USERGROUP: user groups ● target_id: user group IDs ● target_name: user group names ● CLIENTIP: terminal IP addresses ● target_id: terminal IP addresses ● target_name: terminal IP addresses ● OU: organization units ● target_id: OU IDs ● target_name: OU names ● DESKTOPPOOL: desktop pools ● target_id: desktop pool IDs ● target_name: desktop pool names ● ALL: all desktops ● target_id: default-apply-all-targets ● target_name: All-Targets

Table 4-1658 Policies

Parameter	Mandatory	Type	Description
peripherals	No	peripherals object	Peripheral.
audio	No	audio object	Audio.
client	No	client object	Client.
display	No	display object	Display.

Parameter	Mandatory	Type	Description
file_and_clipboard	No	file_and_clipboard object	Files and clipboards.
session	No	Session object	Sessions.
virtual_channel	No	VirtualChannel object	Virtual channels.
watermark	No	Watermark object	Watermarking.
keyboard_mouse	No	keyboard_mouse object	Keyboards and mouse devices.
seamless	No	seamless object	Audio/Video bypass.
personalized_data_mgmt	No	personalized_data_mgmt object	Personalized data management.
custom	No	custom object	Custom policy.
record_audit	No	record_audit object	Screen recording audit.

Table 4-1659 peripherals

Parameter	Mandatory	Type	Description
usb_custom_policy_debug	No	String	Device debugging policy.
usb_port_redirection	No	usb_port_redirection object	USB port redirection.
device_redirection	No	device_redirection object	Device redirection.
usb_device_common	No	usb_device_common object	USB and device smartcard options.
serial_port_redirection	No	serial_port_redirection object	Serial port redirection.
parallel_port_redirection	No	parallel_port_redirection object	Parallel port redirection.

Parameter	Mandatory	Type	Description
driver_interface_redirection	No	driver_interface_redirection object	Driver interface redirection.

Table 4-1660 usb_port_redirection

Parameter	Mandatory	Type	Description
usb_enable	No	Boolean	Whether to enable USB port redirection. Options: false : disable; true : enable
options	No	options object	USB port redirection options.

Table 4-1661 options

Parameter	Mandatory	Type	Description
usb_image_enable	No	Boolean	Whether to enable image devices, such as scanners. Options: false : disable; true : enable
usb_video_enable	No	Boolean	Whether to enable video devices, such as cameras. Options: false : disable; true : enable
usb_printer_enable	No	Boolean	Whether to enable print devices, such as printers. Options: false : disable; true : enable
usb_storage_enable	No	Boolean	Whether to enable storage devices, such as USB flash drives. Options: false : disable; true : enable

Parameter	Mandatory	Type	Description
wireless_devices_enable	No	Boolean	Whether to enable wireless devices, such as Bluetooth. Options: false : disable; true : enable
network_devices_enable	No	Boolean	Whether to enable network devices, such as wireless NICs. Options: false : disable; true : enable
usb_smart_card_enable	No	Boolean	Whether to enable smartcard devices, such as USB keys. Options: false : disable; true : enable
other_usb_devices_enable	No	Boolean	Whether to enable the redirection of other USB devices. Options: false : disable; true : enable
usb_redirection_customization_policy	No	String	Custom policy for USB port redirection. The value contains a maximum of 18,000 characters.
usb_redirection_mode	No	String	USB redirection mode. Options: Classical mode Common mode

Table 4-1662 device_redirection

Parameter	Mandatory	Type	Description
printer_redirection	No	printer_redirection object	Printer redirection.
session_printer	No	session_printer object	Session printer.
camera_redirection	No	camera_redirection object	Camera redirection.

Parameter	Mandatory	Type	Description
twain_redirection_enable	No	Boolean	Whether to enable TWAIN device redirection. Options: false : disable; true : enable
image_compression_level	No	String	Image compression level. Options: none low (highest speed) medium (medium speed) high (lowest speed) lossless low-loss medium-loss high-loss
hid_redirection	No	hid_redirection object	Human interface device (HID) redirection.

Table 4-1663 printer_redirection

Parameter	Mandatory	Type	Description
printer_enable	No	Boolean	Whether to enable printer redirection. Options: false : disable; true : enable
options	No	options object	Printer redirection options.

Table 4-1664 options

Parameter	Mandatory	Type	Description
mobile_printer_enable	No	Boolean	Mobile client printer redirection. Options: false : disable; true : enable

Parameter	Mandatory	Type	Description
print_data_compression_mode	No	Boolean	Whether to enable data compression. Options: false : disable; true : enable
sync_client_default_printer_enable	No	Boolean	Whether to enable default client printer synchronization. Options: false : disable; true : enable
universal_printer_driver	No	String	Universal printer driver. By default, choose Universal Printing PS for Linux clients and HDP XPSDrv Driver for Windows clients. Options: HDP XPSDrv Driver ; Universal Printing PCL 5 Universal Printing PCL 6 Universal Printing PS

Table 4-1665 session_printer

Parameter	Mandatory	Type	Description
session_printer_enable	No	Boolean	Whether to enable session printers. Options: false : disable; true : enable
options	No	options object	Session printer options.

Table 4-1666 options

Parameter	Mandatory	Type	Description
session_printer_customization_policy	No	String	Custom session printer policy. A maximum of 1,000 characters are allowed.

Table 4-1667 camera_redirection

Parameter	Mandatory	Type	Description
video_compress_enable	No	Boolean	Whether to enable camera redirection. Options: false : disable; true : enable
options	No	options object	Camera redirection options.

Table 4-1668 options

Parameter	Mandatory	Type	Description
camera_frame_rate	No	Integer	Camera frame rate (FPS). The value ranges from 1 to 30. Default: 15
camera_max_width	No	Integer	Camera maximum width (pixel). The value ranges from 1 to 9999. Default: 3000
camera_max_height	No	Integer	Camera maximum height (pixel). The value ranges from 1 to 9999. Default: 3000
camera_compression_method	No	String	Camera data compression method. The value is H.264 .

Table 4-1669 hid_redirection

Parameter	Mandatory	Type	Description
hid_redirection_enable	No	Boolean	Whether to enable HID redirection. Options: false : disable; true : enable
options	No	options object	HID options.

Table 4-1670 options

Parameter	Mandatory	Type	Description
hid_redirection_customization_policy	No	String	Custom HID redirection policy.

Table 4-1671 usb_device_common

Parameter	Mandatory	Type	Description
pcsc_smartcard_enable	No	String	Whether to enable PC/SC smartcard redirection. Options: Enable : enabled Closed : closed Disable : disabled
common_options	No	common_options object	Options for both USB devices and device smartcards.

Table 4-1672 common_options

Parameter	Mandatory	Type	Description
remove_smartcard_disconnect_enable	No	Boolean	Whether to enable smartcard removal to log out of user sessions. Options: false : disable; true : enable

Table 4-1673 serial_port_redirection

Parameter	Mandatory	Type	Description
serial_port_enable	No	Boolean	Whether to enable serial port redirection. Options: false : disable; true : enable
options	No	options object	Serial port redirection options.

Table 4-1674 options

Parameter	Mandatory	Type	Description
auto_connect_enable	No	Boolean	Whether to enable automatic connection to client serial ports. Options: false : disable; true : enable

Table 4-1675 parallel_port_redirection

Parameter	Mandatory	Type	Description
parallel_port_enable	No	Boolean	Whether to enable parallel port redirection. Options: false : disable; true : enable

Table 4-1676 driver_interface_redirection

Parameter	Mandatory	Type	Description
api_redir_driver_list	No	String	Custom drivers. Enter one or more driver file names or full paths of driver files installed on terminals. Separate file names or paths with semicolons (;). A maximum of 1,000 characters are allowed.

Table 4-1677 audio

Parameter	Mandatory	Type	Description
audio_redirection_enable	No	Boolean	Whether to enable audio redirection. Options: false : disable; true : enable

Parameter	Mandatory	Type	Description
play_volume	No	String	<p>Playback volume.</p> <p>If this parameter is not specified, the value is Do Not Set Volume.</p> <p>Volume setting. The value ranges from 10 to 100, and the interval between two adjacent values is 5 in ascending order, for example, 10, 15, 20, and 25.</p>
play_volume_ratio	No	String	<p>Playback volume ratio.</p> <p>Options:</p> <p>If this parameter is not specified, the value is Do Not Set Volume Ratio.</p> <p>Low</p> <p>Middle: medium</p> <p>High</p>
record_volume	No	String	<p>Recording volume.</p> <p>If this parameter is not specified, the value is Do Not Set Volume.</p> <p>Volume setting. The value ranges from 10 to 100, and the interval between two adjacent values is 5 in ascending order, for example, 10, 15, 20, and 25.</p>
record_volume_ratio	No	String	<p>Recording volume ratio.</p> <p>Options:</p> <p>If this parameter is not specified, the value is Do Not Set Volume Ratio.</p> <p>Low</p> <p>Middle: medium</p> <p>High</p>
audio_transmission_mode	No	String	<p>Audio transmission mode.</p> <p>Options:</p> <p>Reliable Transmission</p> <p>Real Time Transmission</p>

Parameter	Mandatory	Type	Description
play_redirection_enable	No	Boolean	Whether to enable playback redirection. Options: false : disable; true : enable
play_classification	No	String	Playback scenario. Options: Lossless Speech Call Music Play Automatic Identification
play_quality	No	String	Playback quality. Options: Low Middle : medium High
play_denoising	No	String	Playback denoising. Options: Disabled. Enabled: The value ranges from -100 to -5, and the interval between two adjacent values is 5 in ascending order, for example, -100, -95, -90, and -85.
play_agc	No	String	Playback AGC. Options: Disabled. Enabled: The value ranges from 4,000 to 32,000. From 10,000 on, the interval between two adjacent values is 1,000 in ascending order, for example, 4,000, 6,000, 8,000, 10,000, 11,000, 12,000 and 13,000.
play_crc	No	String	Playback CRC. Options: Disable CRC Enable CRC
play_device_mode	No	String	Playback device mode. Options: Play Device In Shared Mode Play Device In Exclusive Mode

Parameter	Mandatory	Type	Description
play_delay_threshold	No	String	Playback delay threshold. The value ranges from 160 to 2,500. The values less than 400 are in ascending order with an interval of 40, and the values between 400 and 1,000 are in ascending order with an interval of 50. For example, the values can be as follows: 2,500, 2,000, 1,800, 1,500, 1,200, 1,000, 950, 900, 850.
play_amplitude_threshold	No	String	Playback amplitude threshold. The values can be: 2,048, 4,096, 5,120, 6,144, 7,168, 8,192.
play_prefill_data	No	String	Playback prefill data. Options: Do Not Prefill Data; Prefill Data : The value ranges from 50 to 2,000. The values less than 250 are in an ascending order with an interval of 50, and the values between 250 and 500 are in an ascending order with an interval of 100. For example, the values can be as follows: 2,000, 1,500, 1,000, 500, 400, 300, 250.
record_redirection_enable	No	Boolean	Whether to enable recording redirection. Options: false : disable; true : enable
record_classification	No	String	Recording scenario. Options: Lossless Speech Call Music Record Automatic Identification
record_quality	No	String	Recording quality. Options: Low Middle : medium High

Parameter	Mandatory	Type	Description
record_denoising	No	String	Recording denoising. Options: Disabled. Enabled: The value ranges from -100 to -5, and the interval between two adjacent values is 5 in ascending order, for example, -100, -95, -90, and -85.
record_agc	No	String	Recording AGC. Options: Disabled. Enabled: The value ranges from 4,000 to 32,000. From 10,000 on, the interval between two adjacent values is 1,000 in ascending order, for example, 4,000, 6,000, 8,000, 10,000, 11,000, 12,000 and 13,000.
record_crc	No	String	Recording CRC. Options: Disable CRC Enable CRC
record_device_mode	No	String	Recording device mode. Options: Record Device In Shared Mode Record Device In Exclusive Mode
record_delay_threshold	No	String	Recording delay threshold. The value ranges from 160 to 2,500. The values less than 400 are in ascending order with an interval of 40, and the values between 400 and 1,000 are in ascending order with an interval of 50. For example, the values can be as follows: 2,500, 2,000, 1,800, 1,500, 1,200, 1,000, 950, 900, 850.
record_amplitude_threshold	No	String	Recording amplitude threshold. The values can be: 2,048, 4,096, 5,120, 6,144, 7,168, 8,192.

Table 4-1678 client

Parameter	Mandatory	Type	Description
automatic_reconnection_interval	No	Integer	Automatic reconnection interval, in second. The value ranges from 1 to 50. Default: 5
session_persistence_time	No	Integer	Session persistence duration, in second. The value ranges from 0 to 180. Default: 180
autoclose_monitor_after_locked	No	Boolean	Automatic monitor shutdown after screen locking. Options: false : disable; true : enable
autoclose_monitor_options	No	autoclose_monitor_options object	Options for automatic monitor shutdown.
forbid_screen_capture	No	Boolean	Whether to enable screen capture prevention. Options: false : disable; true : enable
client_machine_join_domain	No	Boolean	Whether to verify the domain of a terminal. false : disable; true : enable
client_type	No	client_type object	Terminal type login control.

Table 4-1679 autoclose_monitor_options

Parameter	Mandatory	Type	Description
autoclose_monitor_wait_time	No	Integer	Time before automatic monitor shutdown, in second. The value ranges from 10 to 600,000. Default: 300

Table 4-1680 client_type

Parameter	Mandatory	Type	Description
client_type_limit	No	Boolean	Whether to enable terminal type login control. false : disable; true : enable
options	No	options object	Options for terminal type login control.

Table 4-1681 options

Parameter	Mandatory	Type	Description
sc_type_window	No	Boolean	Whether to select the Windows client. Options: false : not selected true : selected
sc_type_mac	No	Boolean	Whether to select the macOS client. Options: false : not selected true : selected
sc_type_android	No	Boolean	Whether to select the Android client. Options: false : not selected true : selected
sc_type_linux	No	Boolean	Whether to select the Linux client. Options: false : not selected true : selected
sc_type_h5	No	Boolean	Whether to select the web client. Options: false : not selected true : selected
sc_type_ios	No	Boolean	Whether to select the iOS client. Options: false : not selected true : selected

Parameter	Mandatory	Type	Description
sc_type_harmony_os	No	Boolean	Whether to select the HarmonyOS client. Options: false : not selected true : selected
tc_type_all	No	Boolean	Whether to select all hardware terminals. Options: false : not selected true : selected

Table 4-1682 display

Parameter	Mandatory	Type	Description
display_level	No	String	Display level. Options: LEVEL 1 LEVEL 2 LEVEL 3 LEVEL 4 (default/ recommended) LEVEL 5
options	No	options object	Display level options.
rendering_acceleration_enable	No	Boolean	Whether to enable rendering acceleration. Options: false : disable; true : enable
rendering_acceleration_options	No	rendering_acceleration_options object	Rendering acceleration options.
adaptive_bitrate_control_enable	No	Boolean	Whether to enable adaptive bitrate. Options: false : disable; true : enable
adaptive_bitrate_control_options	No	adaptive_bitrate_control_options object	Adaptive bitrate options.
video_card_memory_size	No	Integer	GPU card cache (MB). The value ranges from 0 to 64. Default: 64

Parameter	Mandatory	Type	Description
configuration_1_enable	No	Boolean	Whether to enable configuration item 1. Options: false : disable; true : enable
driver_delegation_mode_enable	No	Boolean	Whether to enable driver delegation. Options: false : disable; true : enable
driver_delegation_latency	No	Integer	Driver delegation latency (x 30 ms). The value ranges from 1 to 100. Default: 80
video_latency	No	Integer	Driver delegation video latency (x 30 ms). The value ranges from 1 to 100. Default: 80
change_resolution_vm	No	Boolean	Whether to enable resolution change. Options: false : disable; true : enable
application_recognition	No	String	Application recognition. A maximum of 1,024 characters are allowed.
duplicate_display_enable	No	Boolean	Duplicate display. Options: false : disable; true : enable
default_mapping_order	No	String	Default screen mapping sequence. Default: 1, 2, 3, 4
duplicate_display_mode	No	String	Duplicate display mode. Options: One-to-One : Only one channel is supported. One-to-Many : Multiple channels are supported.

Table 4-1683 options

Parameter	Mandatory	Type	Description
display_bandwidth	No	Integer	Bandwidth (kbit/s). The value ranges from 256 to 25,000. Default: 20,000
frame_rate	No	Integer	Frame rate (FPS). The value ranges from 1 to 60. Default: 25
video_frame_rate	No	Integer	Video frame rate (FPS). The value ranges from 1 to 60. Default: 30
min_image_cache	No	Integer	Minimum capacity for image cache (MB). The value ranges from 0 to 300. Default: 200
smoothing_factor	No	Integer	Lossy compression recognition threshold. The value ranges from 0 to 255. Default: 60
lossless_compression_mode	No	String	Lossless compression. Options: Basic Compression Deep Compression
deep_compression_options	No	deep_compression_options object	Deep compression options.
lossy_compression_quality	No	Integer	Lossy compression quality. The value ranges from 20 to 100. Default: 85
color_enhancement_enable	No	Boolean	Whether to enable color enhancement for office work. Options: false : disable; true : enable
quality_bandwidth_first	No	String	Quality/Bandwidth first. Options: Quality First Bandwidth First
video_bit_rate_options	No	video_bit_rate_options object	Video bitrate options.
peak_video_bit_rate	No	Integer	Peak video bitrate (kbit/s). The value ranges from 256 to 100,000. Default: 18,000

Parameter	Mandatory	Type	Description
video_quality_options	No	video_quality_options object	Video quality options.
gop_size	No	Integer	GOP size. The value ranges from 0 to 65535. Default: 100
encoding_preset	No	String	Encoding preset. Options: Preset 1 Preset 2 Preset 3 Preset 4 Preset 5 Preset 6 Preset 7

Table 4-1684 deep_compression_options

Parameter	Mandatory	Type	Description
deep_compression_level	No	String	Deep compression level. Options: Compression grade 0 Compression grade 1 Compression grade 2 Compression grade 3 Compression grade 4 Compression grade 5 Compression grade 6 Compression grade 7 Compression grade 8 Compression grade 9

Table 4-1685 video_bit_rate_options

Parameter	Mandatory	Type	Description
average_video_bit_rate	No	Integer	Average video bitrate (kbit/s). The value ranges from 256 to 100,000. Default: 18,000

Table 4-1686 video_quality_options

Parameter	Mandatory	Type	Description
average_video_quality	No	Integer	Average video quality. The value ranges from 5 to 59. Default: 15
lowest_video_quality	No	Integer	Lowest video quality. The value ranges from 5 to 69. Default: 25
highest_video_quality	No	Integer	Highest video quality. The value ranges from 1 to 59. Default: 7

Table 4-1687 rendering_acceleration_options

Parameter	Mandatory	Type	Description
video_acceleration_enhancement_enable	No	Boolean	Whether to enable video acceleration enhancement. Options: false : disable; true : enable
video_optimization_enable	No	Boolean	Whether to enable video scene optimization. Options: false : disable; true : enable
gpu_color_optimization_enable	No	Boolean	Whether to enable GPU color optimization. Options: false : disable; true : enable
video_recognition_threshold	No	Integer	Video recognition threshold. The value ranges from 0 to 500. Default: 10
frame_rate_statistical_length	No	Integer	Frame rate statistical length. The value ranges from 2 to 100. Default: 4
image_quality_threshold	No	Integer	Image quality threshold. The value ranges from 0 to 100. Default: 0
refresh_frequency_threshold	No	Integer	Refresh frequency threshold. The value ranges from 1 to 100. Default: 3

Parameter	Mandatory	Type	Description
exiting_video_area_threshold	No	Integer	Threshold of exiting the video area. The value ranges from 0 to 100. Default: 8
min_video_width	No	Integer	Minimum video width. The value ranges from 0 to 1,280. Default: 191
min_video_length	No	Integer	Minimum video height. The value ranges from 0 to 1,280. Default: 191
single_frame_natural_percentage	No	String	Threshold of the single-frame natural image block percentage. The value ranges from 0.000001 to 1. Default: 0.3
cyclical_natural_images_number	No	Integer	Threshold of cyclical natural image quantity percentage. The value ranges from 0 to 100. Default: 2
non_natural_image_percentage	No	String	Threshold of the non-natural image area percentage. The value ranges from 0.000001 to 1. Default: 0.85
non_natural_images_number	No	Integer	Threshold of non-natural image quantity percentage. The value ranges from 0 to 100. Default: 25

Table 4-1688 adaptive_bitrate_control_options

Parameter	Mandatory	Type	Description
peak_bandwidth_suppression_enable	No	Boolean	Whether to enable peak bandwidth suppression. Options: false : disable; true : enable
expected_average_network_latency	No	Integer	Expected average network latency, in millisecond. The value ranges from 1 to 2,000. Default: 160
network_latency_threshold1	No	Integer	Network latency threshold 1 (ms). The value ranges from 1 to 2,000. Default: 160

Parameter	Mandatory	Type	Description
network_latency_threshold2	No	Integer	Network latency threshold 2 (ms). The value ranges from 1 to 2,000. Default: 300
min_dynamic_frame_rate	No	Integer	Minimum dynamic frame rate (FPS). The value ranges from 1 to 60. Default: 17
min_dynamic_frame_rate_lv1	No	Integer	Minimum dynamic frame rate level 1 (FPS). The value ranges from 1 to 60. Default: 17
min_dynamic_frame_rate_lv2	No	Integer	Minimum dynamic frame rate level 2 (FPS). The value ranges from 1 to 60. Default: 10
rtt_threshold	No	Integer	Frame rate control parameter 1. The value ranges from 0 to 1,000. Default: 20
min_add_framerate	No	Integer	Frame rate control parameter 2. The value ranges from 0 to 120. Default: 8
max_add_framerate	No	Integer	Frame rate control parameter 3. The value ranges from 0 to 120. Default: 20
sub_framerate	No	Integer	Frame rate control parameter 4. The value ranges from 0 to 120. Default: 25
adaptive_bandwidth_lower_limit	No	Integer	Adaptive bandwidth lower limit, in kbit/s. The value ranges from 100 to 20,000. Default: 500
adaptive_compression_quality_lower_limit	No	Integer	Lower limit of adaptive lossy compression quality. The value ranges from 1 to 100. Default: 60
adaptive_compression_quality_upper_limit	No	Integer	Upper limit of adaptive lossy compression quality. The value ranges from 1 to 100. Default: 85
adaptive_compression_quality_increase_limit	No	Integer	Increase limit of adaptive lossy compression quality. The value ranges from 1 to 100. Default: 5

Parameter	Mandatory	Type	Description
adaptive_compression_quality_decrease_limit	No	Integer	Decrease limit of adaptive lossy compression quality. The value ranges from 1 to 100. Default: 10
adaptive_average_quality_lower_limit	No	Integer	Lower limit of adaptive average video quality. The value ranges from 5 to 50. Default: 15
adaptive_average_quality_upper_limit	No	Integer	Upper limit of adaptive average video quality. The value ranges from 5 to 50. Default: 25
adaptive_average_quality_increase_limit	No	Integer	Increase limit of adaptive average video quality. The value ranges from 1 to 50. Default: 3
adaptive_average_quality_decrease_limit	No	Integer	Decrease limit of adaptive average video quality. The value ranges from 1 to 50. Default: 1
adaptive_minimum_quality_lower_limit	No	Integer	Lower limit of adaptive minimum video quality. The value ranges from 5 to 69. Default: 25
adaptive_minimum_quality_upper_limit	No	Integer	Upper limit of adaptive minimum video quality. The value ranges from 5 to 69. Default: 30
adaptive_minimum_quality_increase_limit	No	Integer	Increase limit of adaptive minimum video quality. The value ranges from 1 to 50. Default: 3
adaptive_minimum_quality_decrease_limit	No	Integer	Decrease limit of adaptive minimum video quality. The value ranges from 1 to 50. Default: 1

Table 4-1689 file_and_clipboard

Parameter	Mandatory	Type	Description
file_redirection	No	file_redirection object	File redirection.

Parameter	Mandatory	Type	Description
clip_length_limit_flag_c2s	No	Boolean	Clipboard length.
clip_length_limit_c2s	No	Integer	Client clipboard length.
clip_length_limit_flag_s2c	No	Boolean	Clipboard length.
clip_length_limit_s2c	No	Integer	Client clipboard length.
fd_mobile_client_redirection_enable	No	Boolean	Whether to enable mobile client file redirection. Options: false : disable; true : enable
clipboard_redirection	No	String	Clipboard redirection. Options: DISABLED (default) SERVER_TO_CLIENT_ENABLED (from the server to the client) CLIENT_TO_SERVER_ENABLED (from the client to the server) TWO_WAY_ENABLED (two-way)
clipboard_redirection_options	No	clipboard_redirection_options object	Clipboard redirection options.

Table 4-1690 file_redirection

Parameter	Mandatory	Type	Description
redirection_mode	No	String	File redirection. Options: DISABLED (default) READ_ONLY READ_AND_WRITE
options	No	options object	File redirection options.

Parameter	Mandatory	Type	Description
vm_send_file_client	No	Boolean	Whether to enable the function of sending files from the VM to the client. Options: false : disable; true : enable
redirection_send_file_options	No	redirection_send_file_options object	Options for both redirection and file sending.

Table 4-1691 options

Parameter	Mandatory	Type	Description
fluid_control_switch_enable	No	Boolean	Whether to enable rate limit. Options: false : disable; true : enable
fluid_control_options	No	fluid_control_options object	Rate limit options.
compression_switch_enable	No	Boolean	Whether to enable compression. Options: false : disable; true : enable
compression_switch_options	No	compression_switch_options object	Compression options.
linux_file_size_supported_enable	No	Boolean	Whether to enable the function of setting the file size in Linux. Options: false : disable; true : enable
linux_file_size_supported_options	No	linux_file_size_supported_options object	Options for setting the file size in Linux.
linux_root_mount_switch_enable	No	Boolean	Whether to enable root directory mount in Linux. Options: false : disable; true : enable

Parameter	Mandatory	Type	Description
linux_root_dir_list	No	String	Mount path of the Linux root directory. Default: \var\log
linux_file_mount_path	No	String	Mount path of the Linux file system. Default: \media \Volumes\swdb\mnt\home \storage\tmp\run\media
linux_fixed_drive_file_system_format	No	String	Linux fixed driver file system format.
linux_removable_drive_file_system_format	No	String	Linux removable driver file system format. Default: vfat ntfs msdos fuseblk sdcardfs exfat fuse.fdir lifs
linux_cdrom_drive_file_system_format	No	String	Linux CD-ROM driver file system format. Default: cd9660 iso9660 udf
linux_network_drive_file_system_format	No	String	Linux network driver file system format. Default: smbfs afpfs cifs
path_separator	No	String	Path separator. Default:
fixed_drive_enable	No	Boolean	Whether to enable fixed drivers (such as local disks). Options: false : disable; true : enable
removable_drive_enable	No	Boolean	Whether to enable removable drivers (such as USB flash drives). Options: false : disable; true : enable
cd_rom_drive_enable	No	Boolean	Whether to enable CD-ROM drivers. Options: false : disable; true : enable
network_drive_enable	No	Boolean	Whether to enable network drivers. Options: false : disable; true : enable

Table 4-1692 fluid_control_options

Parameter	Mandatory	Type	Description
good_network_latency	No	Integer	Good network latency threshold (ms). The value ranges from 1 to 1,000. Default: 30
normal_network_latency	No	Integer	Normal network latency threshold (ms). The value ranges from 1 to 1,000. Default: 70
poor_network_latency	No	Integer	Poor network latency threshold (ms). The value ranges from 1 to 1,000. Default: 100
reducing_step	No	Integer	Reducing step (KB). The value ranges from 1 to 100. Default: 20
slow_increasing_step	No	Integer	Slow increasing step (KB). The value ranges from 1 to 100. Default: 10
quick_increasing_step	No	Integer	Quick increasing step (KB). The value ranges from 1 to 100. Default: 20
start_speed	No	Integer	Initial transmission speed (KB/s). The value ranges from 1 to 10,240. Default: 1,024
test_block_size	No	Integer	Speed test block size (KB). The value ranges from 64 to 1,024. Default: 64
test_time_gap	No	Integer	Speed test block interval (ms). The value ranges from 1,000 to 100,000. Default: 10,000

Table 4-1693 compression_switch_options

Parameter	Mandatory	Type	Description
compression_threshold	No	Integer	Compression threshold (byte). The value ranges from 0 to 10,240. Default: 512
minimum_compression_rate	No	Integer	Minimum compression rate. The value ranges from 0 to 1,000. Default: 900

Table 4-1694 linux_file_size_supported_options

Parameter	Mandatory	Type	Description
linux_file_size_supported_threshold	No	Integer	File size threshold in Linux (byte). The value ranges from 0 to 4,096. Default: 100

Table 4-1695 redirection_send_file_options

Parameter	Mandatory	Type	Description
read_write_speed	No	Integer	Read/Write speed (kbit/s). The value ranges from 0 to 2147483647. Default: 0

Table 4-1696 clipboard_redirection_options

Parameter	Mandatory	Type	Description
rich_text_redirection_enable	No	Boolean	Whether to enable clipboard rich text redirection. Options: false : disable; true : enable
clipboard_file_redirection_enable	No	Boolean	Whether to enable clipboard file redirection. Options: false : disable; true : enable

Table 4-1697 Session

Parameter	Mandatory	Type	Description
vdi	No	Vdi object	VDI.
self_help_console	No	Boolean	Whether to enable preemption login to the self-help console. Options: false : disable; true : enable
disconnect_on_lock_flag	No	Boolean	Whether to disconnect after the screen is locked.
auto_lock_start_time	No	String	Start time when the lock takes effect. The format is hh:mm:ss.
auto_lock_end_time	No	String	Start time when the lock takes effect. The format is hh:mm:ss.

Table 4-1698 Vdi

Parameter	Mandatory	Type	Description
auto_lock_enable	No	Boolean	Whether to enable automatic screen locking. Options: false : disable; true : enable
auto_lock_options	No	AutoLockOptions object	Options available after automatic screen locking is enabled.
disconnect_logout_enable	No	Integer	Whether to enable automatic logout upon disconnection. Options: 0 : disable; 1 : enable
disconnect_logout_options	No	DisconnectLogoutOptions object	Options available after automatic logout upon disconnection is enabled.
disconnect_hibernate_enable	No	Boolean	Whether to enable automatic logout upon disconnection. Options: 0 : disable; 1 : enable
disconnect_hibernate_options	No	disconnect_hibernate_options object	Options for hibernation upon disconnection.
no_operation_hibernate_enable	No	Boolean	Whether to enable automatic logout upon disconnection. Options: 0 : disable; 1 : enable
no_operation_hibernate_options	No	no_operation_hibernate_options object	Do not select the hibernation option.

Table 4-1699 AutoLockOptions

Parameter	Mandatory	Type	Description
auto_lock_minutes	No	Integer	Time before screen locking, in minute. The value ranges from 3 to 86,400. Default: 10

Parameter	Mandatory	Type	Description
auto_disconnect	No	String	Automatic disconnection or logout. Options: AUTO_DISCONNECT (automatic disconnection); AUTO_LOGOUT (automatic logout); DISABLED (disabled); AUTO_RESTART (default, automatic restart); AUTO_STOP (automatic shutdown); HIBERNATE (hibernation)
options	No	AutoDisconnectOrLogoutControlOptions object	Options available after automatic disconnection or automatic logout is enabled.

Table 4-1700 AutoDisconnectOrLogoutControlOptions

Parameter	Mandatory	Type	Description
auto_disconnect_minutes	No	Integer	Time before disconnection or logout, in minute. The value ranges from 1 to 86,400. Default: 1,440

Table 4-1701 DisconnectLogoutOptions

Parameter	Mandatory	Type	Description
disconnect_logout_minutes	No	Integer	Time before automatic logout upon disconnection, in minute. The value ranges from 3 to 86,400. Default: 10

Table 4-1702 disconnect_hibernate_options

Parameter	Mandatory	Type	Description
disconnect_hibernate_minutes	No	Integer	Hibernation duration upon disconnection.

Table 4-1703 no_operation_hibernate_options

Parameter	Mandatory	Type	Description
no_operation_hibernate_minutes	No	Integer	Policy group ID.

Table 4-1704 VirtualChannel

Parameter	Mandatory	Type	Description
virtual_channel_control_enable	No	Boolean	Whether to enable the virtual channel policy. Options: false : disable; true : enable
options	No	VirtualChannelOptions object	Virtual channel policy options.

Table 4-1705 VirtualChannelOptions

Parameter	Mandatory	Type	Description
custom_virtual_channel_name	No	String	Custom registered virtual channel name. Currently, only ASCII characters are supported. The value can contain a maximum of 65,535 characters.
virtual_channel_plugin_details	No	String	Virtual channel download details (Base64-encoded). Before encryption, only ASCII characters are supported. The value can contain a maximum of 65,535 characters.
third_party_plugin_name	No	String	Third-party plug-in name. The value can contain a maximum of 65,535 characters.

Table 4-1706 Watermark

Parameter	Mandatory	Type	Description
watermark_enable	No	Boolean	Indicates whether to enable the watermark policy. Options: false : disable; true : enable

Parameter	Mandatory	Type	Description
options	No	WatermarkOptions object	Watermark policy options.

Table 4-1707 WatermarkOptions

Parameter	Mandatory	Type	Description
show_style	No	String	Display mode. Options: FIXED (fixed position); RANDOM (random motion)
color	No	String	Color. Format: RRGGBB . Default: 2a2a2a
font_size	No	Integer	Font size. The value ranges from 1 to 200. Default: 30
opacity_setting	No	String	Opacity (%). The value ranges from 0 to 100. Default: 12.5
content_item_count	No	Integer	Number of watermarks. The value ranges from 1 to 30. Default: 1
display_format	No	String	Watermark content display format.
lean	No	Integer	Tilt. The value ranges from -90 to 90. Default: -45
content_customized	No	String	Custom content, which cannot contain special characters such as >.
content_color	No	String	Content color.
watermark_security_access	No	Boolean	Whether to enable the security-first mode.
user_extend_info_switch	No	Boolean	Whether to enable extended user information. false : disable; true : enable
user_extend_info	No	String	Extended user information.

Table 4-1708 keyboard_mouse

Parameter	Mandatory	Type	Description
mouse_feedback	No	String	VM mouse device feedback. Options: SELFADAPTION : adaptive mouse device feedback FORCE : forcible mouse device feedback CLOSE : no mouse device feedback
mouse_simulation_mode	No	String	VM mouse device simulation mode. Options: ABSOLUTE_POSITION : absolute position simulation RELATIVE_POSITION : relative position simulation
external_cursor_feedback	No	Boolean	Whether to enable VM external cursor feedback. Options: false : disable; true : enable
selfhelp_console_enable	No	Boolean	Whether to enable preemption login to the self-help console. Options: false : disable; true : enable
client_mouse_send_interval	No	Integer	Interval for sending mouse device operations on the client. The value ranges from 1 to 30. Default: 30
windows_client_keyboard_mode	No	String	Windows client keyboard mode. Options: GLOBAL : global mode for Windows client keyboards (default) WINDOW : windowed mode for for Windows client keyboards

Parameter	Mandatory	Type	Description
windows_client_mouse_mode	No	String	Windows client mouse device mode. Options: GLOBAL : global mode for Windows client mouse devices WINDOW : windowed mode for Windows client mouse devices (default)
linux_client_keyboard_mode	No	String	Linux client keyboard mode. Options: EVENT : event mode for Linux client keyboards (default) GRAPH : graphics mode for Linux client keyboards
linux_client_mouse_mode	No	String	Linux client mouse device mode. Options: EVENT : event mode for Linux client mouse devices (default) GRAPH : graphics mode for Linux client mouse devices
special_keyboard	No	Boolean	Special keyboard. Options: false : disable; true : enable
joy_stick_flag	No	Boolean	Joystick. Options: false : disable; true : enable

Table 4-1709 seamless

Parameter	Mandatory	Type	Description
seamless_enable	No	Boolean	Whether to enable audio/video bypass. Options: false : disable; true : enable
options	No	options object	General audio/video settings.

Table 4-1710 options

Parameter	Mandatory	Type	Description
seamless_apply_path	No	String	Software path. A maximum of 1,000 characters are allowed.

Table 4-1711 personalized_data_mgmt

Parameter	Mandatory	Type	Description
personalized_data_mgmt_path	No	String	Personalized data management path.
user_data_roaming_enable	No	Boolean	User data roaming.
user_data_roaming_options	No	user_data_roaming_options object	User data roaming options.
user_folder_redirection_enable	No	Boolean	Enables user folder redirection.
user_folder_redirection_options	No	user_folder_redirection_options object	User folder redirection options.
logoff_delete_user_configuration	No	Boolean	Enables user folder redirection.
network_drive_mapping_enable	No	Boolean	Enables user folder redirection.
network_drive_mapping_options	No	network_drive_mapping_options object	Network driver mapping options.

Table 4-1712 user_data_roaming_options

Parameter	Mandatory	Type	Description
profile_streaming_enable	No	Boolean	Whether to enable profile streaming.
roamed_files_local_path	No	String	Local path of roamed files.

Parameter	Mandatory	Type	Description
exclude_folders_path	No	String	Path of an excluded folder.
roaming_registry_method	No	String	Path of an excluded folder.
roaming_registry_path	No	String	Path of roaming registration.

Table 4-1713 user_folder_redirection_options

Parameter	Mandatory	Type	Description
restore_local_directories_enable	No	Boolean	Enables the restoration of local directories.
appData_roaming_enable	No	Boolean	Enables application data roaming.
redirec_desktop	No	Boolean	Desktop redirection.
redirec_start_menu	No	Boolean	Start menu.
redirec_documents	No	Boolean	Document.
redirec_pictures	No	Boolean	Photo.
redirec_music	No	Boolean	Music.
redirec_videos	No	Boolean	Audio recording.
redirec_favorites	No	Boolean	Favorite.
redirec_contacts	No	Boolean	Audio recording.
redirec_downloads	No	Boolean	Download.
redirec_links	No	Boolean	Link
redirec_searches	No	Boolean	Search.
redirec_saved_games	No	Boolean	Game storage.

Table 4-1714 network_drive_mapping_options

Parameter	Mandatory	Type	Description
network_drive_mapping_path	No	String	Network drive mapping path.
drive_letter	No	String	Path of an excluded folder.

Table 4-1715 custom

Parameter	Mandatory	Type	Description
custom_configuration1_enable	No	Boolean	Whether to enable custom configuration.
options	No	options object	General audio/video settings.

Table 4-1716 options

Parameter	Mandatory	Type	Description
custom_configuration1_rule	No	String	Custom configuration rule.

Table 4-1717 record_audit

Parameter	Mandatory	Type	Description
enable	No	Boolean	Whether to enable screen recording audit. Options: false : disable; true : enable
rules	No	rules object	Screen recording rules.
storage_type	No	String	Storage type. Options: OBS : OBS bucket SFTP : SFTP interconnection
obs_bucket_source	No	String	OBS bucket source. Options: AUTO_CREATE : automatically created CREATED : created

Parameter	Mandatory	Type	Description
obs_bucket_name	No	String	OBS bucket name
retention_duration	No	Integer	Retention period of a screen recording file, in days. The value ranges from 1 to 180. 0 indicates that the file is retained permanently.

Table 4-1718 rules

Parameter	Mandatory	Type	Description
rule	No	RecordAuditRule object	Rule.

Table 4-1719 RecordAuditRule

Parameter	Mandatory	Type	Description
record_type	No	String	Recording type. Options: whole : continuous screen recording interval : interval screen recording userOperations : screen recording by users sessionMonitoring : screen recording of the session lifecycle
interval_record_start_time	No	String	Start time of interval-based screen recording. This parameter is valid only when interval is used. The format is hh:mm.
interval_record_end_time	No	String	End time of interval-based screen recording. This parameter is valid only when interval is used. The format is hh:mm.

Parameter	Mandatory	Type	Description
op_type	No	String	Operation triggering type. This parameter is valid only when userOperations is used. Options: input : Screen recording is started once the user enters content. filecopy : Screen recording is started once the user copies a file.
audio_record	No	Boolean	Whether to enable audio recording. Options: false : disable; true : enable
fps	No	String	Recording frame rate. The value can be 2, 5, 10, or 15 .
duration	No	String	Duration of a single video recording file, in minutes. The value can be 10, 20, 30, or 60 .
resolution	No	String	Resolution settings. The value can be 720P, 1080P, or original .
event_enable	No	Boolean	Whether to enable key event audit. Options: false : disabled true : enabled
file_suffix	No	String	File name extension. Use vertical bars () to separate multiple file name extensions.
regit_paths	No	String	Registry path. Use vertical bars () to separate multiple registry paths.
app_filter_type	No	String	Application filtering type. The value can be black (blacklist) or white (whitelist).
app_white_list	No	String	Enables or disables the application whitelist. If it is enabled, only the whitelisted applications are monitored.

Parameter	Mandatory	Type	Description
app_black_list	No	String	Enables or disables the application blacklist. Blacklisted applications will be ignored.

Response Parameters

Status code: 200

Table 4-1720 Response body parameters

Parameter	Type	Description
id	String	Primary key of the modified policy.

Status code: 400

Table 4-1721 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401

Table 4-1722 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-1723** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-1724** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 405**Table 4-1725** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500

Table 4-1726 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 503**Table 4-1727** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
PUT /v2/29dfe82ada564ac2b927e1ff036d9a9b/policy-groups/1d23e82ada564ac2b927e1ff0361fe23
```

```
{
  "policy_group" : {
    "policy_group_name" : "string",
    "description" : "string",
    "priority" : 65535,
    "targets" : [ {
      "target_id" : "string",
      "target_name" : "string",
      "target_type" : "string"
    } ],
    "policies" : {
      "peripherals" : {
        "usb_custom_policy_debug" : "string",
        "usb_port_redirection" : {
          "usb_enable" : true,
          "options" : {
            "usb_image_enable" : true,
            "usb_video_enable" : true,
            "usb_printer_enable" : true,
            "usb_storage_enable" : false,
            "wireless_devices_enable" : false,
            "network_devices_enable" : false,
            "usb_smart_card_enable" : true,
            "other_usb_devices_enable" : false,
            "usb_redirection_customization_policy" : "string",
            "usb_redirection_mode" : "Common mode"
          }
        }
      }
    }
  }
}
```

```

},
"device_redirection" : {
  "printer_redirection" : {
    "printer_enable" : true,
    "options" : {
      "mobile_printer_enable" : false,
      "print_data_compression_mode" : false,
      "sync_client_default_printer_enable" : true,
      "universal_printer_driver" : "Default"
    }
  },
  "session_printer" : {
    "session_printer_enable" : false,
    "options" : {
      "session_printer_customization_policy" : "string"
    }
  },
  "camera_redirection" : {
    "video_compress_enable" : true,
    "options" : {
      "camera_frame_rate" : 15,
      "camera_max_width" : 3000,
      "camera_max_height" : 3000,
      "camera_compression_method" : "H.264"
    }
  },
  "twain_redirection_enable" : true,
  "image_compression_level" : "medium",
  "hid_redirection" : {
    "hid_redirection_enable" : false,
    "options" : {
      "hid_redirection_customization_policy" : "string"
    }
  },
  "usb_device_common" : {
    "pcsc_smart_card_enable" : "Disable",
    "common_options" : {
      "remove_smart_card_disconnect_enable" : false
    }
  },
  "serial_port_redirection" : {
    "serial_port_enable" : false,
    "options" : {
      "auto_connect_enable" : false
    }
  },
  "parallel_port_redirection" : {
    "parallel_port_enable" : false
  },
  "driver_interface_redirection" : {
    "api_redir_driver_list" : "string"
  },
  "audio" : {
    "audio_redirection_enable" : true,
    "play_volume" : "Do Not Set Volume",
    "play_volume_ratio" : "Do Not Set Volume Ratio",
    "record_volume" : "100",
    "record_volume_ratio" : "Do Not Set Volume Ratio",
    "audio_transmission_mode" : "Reliable Transmission",
    "play_redirection_enable" : true,
    "play_classification" : "Music Play",
    "play_quality" : "Middle",
    "play_denoising" : "Disable Denoising",
    "play_agc" : "Disable AGC",
    "play_crc" : "Disable CRC",
    "play_device_mode" : "Play Device In Shared Mode",
    "play_delay_threshold" : "240",

```

```

"play_amplitude_threshold" : "4096",
"play_prefill_data" : "Do Not Prefill Data",
"record_redirection_enable" : true,
"record_classification" : "Speech Call",
"record_quality" : "Middle",
"record_denoising" : "-25",
"record_agc" : "Disable AGC",
"record_crc" : "Disable CRC",
"record_device_mode" : "Record Device In Shared Mode",
"record_delay_threshold" : "200",
"record_amplitude_threshold" : "4096"
},
"client" : {
"automatic_reconnection_interval" : 5,
"session_persistence_time" : 180,
"autoclose_monitor_after_locked" : false,
"autoclose_monitor_options" : {
"autoclose_monitor_wait_time" : 300
},
"forbid_screen_capture" : false,
"client_machine_join_domain" : true,
"client_type" : {
"client_type_limit" : true,
"options" : {
"sc_type_window" : true,
"sc_type_mac" : true,
"sc_type_android" : true,
"sc_type_linux" : true,
"sc_type_h5" : true,
"sc_type_ios" : true,
"sc_type_harmony_os" : true,
"tc_type_all" : true
}
}
},
"display" : {
"display_level" : "LEVEL4",
"options" : {
"display_bandwidth" : 20000,
"frame_rate" : 25,
"video_frame_rate" : 30,
"min_image_cache" : 200,
"smoothing_factor" : 60,
"lossless_compression_mode" : "Basic Compression",
"deep_compression_options" : {
"deep_compression_level" : "Compression grade 0"
},
"lossy_compression_quality" : 85,
"color_enhancement_enable" : false,
"quality_bandwidth_first" : "Quality First",
"video_bit_rate_options" : {
"average_video_bit_rate" : 18000
},
"peak_video_bit_rate" : 18000,
"video_quality_options" : {
"average_video_quality" : 15,
"lowest_video_quality" : 25,
"highest_video_quality" : 7
},
"gop_size" : 100,
"encoding_preset" : "Preset 1"
},
"rendering_acceleration_enable" : false,
"rendering_acceleration_options" : {
"video_acceleration_enhancement_enable" : true,
"video_optimization_enable" : false,
"gpu_color_optimization_enable" : false,
"video_recognition_threshold" : 10,
"frame_rate_statistical_length" : 4,

```

```

"image_quality_threshold" : 0,
"refresh_frequency_threshold" : 3,
"exiting_video_area_threshold" : 8,
"min_video_width" : 191,
"min_video_length" : 191,
"single_frame_natural_percentage" : "0.3",
"cyclical_natural_images_number" : 2,
"non_natural_image_percentage" : "0.85",
"non_natural_images_number" : 25
},
"adaptive_bitrate_control_enable" : false,
"adaptive_bitrate_control_options" : {
  "peak_bandwidth_suppression_enable" : false,
  "expected_average_network_latency" : 160,
  "network_latency_threshold1" : 160,
  "network_latency_threshold2" : 300,
  "min_dynamic_frame_rate" : 17,
  "min_dynamic_frame_rate_lv1" : 17,
  "min_dynamic_frame_rate_lv2" : 10,
  "rtt_threshold" : 20,
  "min_add_framerate" : 8,
  "max_add_framerate" : 20,
  "sub_framerate" : 25,
  "adaptive_bandwidth_lower_limit" : 500,
  "adaptive_compression_quality_lower_limit" : 60,
  "adaptive_compression_quality_upper_limit" : 85,
  "adaptive_compression_quality_increase_limit" : 5,
  "adaptive_compression_quality_decrease_limit" : 10,
  "adaptive_average_quality_lower_limit" : 15,
  "adaptive_average_quality_upper_limit" : 25,
  "adaptive_average_quality_increase_limit" : 3,
  "adaptive_average_quality_decrease_limit" : 1,
  "adaptive_min_quality_lower_limit" : 25,
  "adaptive_min_quality_upper_limit" : 30,
  "adaptive_min_quality_increase_limit" : 3,
  "adaptive_min_quality_decrease_limit" : 1
},
"video_card_memory_size" : 64,
"configuration1_enable" : false,
"driver_delegation_mode_enable" : false,
"driver_delegation_latency" : 80,
"video_latency" : 80,
"change_resolution_vm" : false,
"application_recognition" : "string",
"duplicate_display_enable" : false,
"default_mapping_order" : "1,2,3,4",
"duplicate_display_mode" : "One-to-One"
},
"file_and_clipboard" : {
  "file_redirection" : {
    "redirection_mode" : "DISABLED",
    "options" : {
      "fluid_control_switch_enable" : false,
      "fluid_control_options" : {
        "good_network_latency" : 30,
        "normal_network_latency" : 70,
        "poor_network_latency" : 100,
        "reducing_step" : 20,
        "slow_increasing_step" : 10,
        "quick_increasing_step" : 20,
        "start_speed" : 1024,
        "test_block_size" : 64,
        "test_time_gap" : 10000
      },
      "compression_switch_enable" : false,
      "compression_switch_options" : {
        "compression_threshold" : 512,
        "minimum_compression_rate" : 900
      }
    }
  }
}

```

```

        "linux_file_size_supported_enable" : true,
        "linux_file_size_supported_options" : {
            "linux_file_size_supported_threshold" : 100
        },
        "linux_root_mount_switch_enable" : true,
        "linux_root_dir_list" : "\\\var\\\\log",
        "linux_file_mount_path" : "\\\media\\\\Volumes\\\\swdb\\\\mnt\\\\home\\\\storage\\\\tmp\\\\\\
run\\\\media",
        "linux_fixed_drive_file_system_format" : "string",
        "linux_removable_drive_file_system_format" : "vfat|ntfs|msdos|fuseblk|sdcardfs|exfat|fuse.fdir|lifs",
        "linux_cdrom_drive_file_system_format" : "cd9660|iso9660|udf",
        "linux_network_drive_file_system_format" : "smbfs|afpfs|cifs",
        "path_separator" : "|",
        "fixed_drive_enable" : true,
        "removable_drive_enable" : true,
        "cd_rom_drive_enable" : true,
        "network_drive_enable" : true
    },
    "vm_send_file_client" : true,
    "redirection_send_file_options" : {
        "read_write_speed" : 0
    }
},
"clip_length_limit_flag_c2s" : true,
"clip_length_limit_c2s" : 180,
"clip_length_limit_flag_s2c" : true,
"clip_length_limit_s2c" : 180,
"fd_mobile_client_redir_enable" : true,
"clipboard_redirection" : "DISABLED",
"clipboard_redirection_options" : {
    "rich_text_redirection_enable" : true,
    "clipboard_file_redirection_enable" : true
}
},
"session" : {
    "vdi" : {
        "auto_lock_enable" : true,
        "auto_lock_options" : {
            "auto_lock_minutes" : 10,
            "auto_disconnect" : "DISABLED",
            "options" : {
                "auto_disconnect_minutes" : 1440
            }
        },
        "disconnect_logout_enable" : 0,
        "disconnect_logout_options" : {
            "disconnect_logout_minutes" : 10
        },
        "disconnect_hibernate_enable" : false,
        "disconnect_hibernate_options" : {
            "disconnect_hibernate_minutes" : 0
        },
        "no_operation_hibernate_enable" : false,
        "no_operation_hibernate_options" : {
            "no_operation_hibernate_minutes" : 0
        }
    },
    "self_help_console" : true,
    "disconnect_on_lock_flag" : false
},
"virtual_channel" : {
    "virtual_channel_control_enable" : false,
    "options" : {
        "custom_virtual_channel_name" : "string",
        "virtual_channel_plugin_details" : "string",
        "third_party_plugin_name" : "string"
    }
},
"watermark" : {

```

```

"watermark_enable" : false,
"options" : {
  "show_style" : "RANDOM",
  "color" : "2a2a2a",
  "font_size" : 30,
  "opacity_setting" : "12.5",
  "content_item_count" : 1,
  "display_format" : "{\AlignMode\":"left","\DateTimeFormat\":"DT","\DateFormat\":"yyyy-mm-dd
\","\TimeFormat\":"hh:mm:ss","\RepeatCount\":"2","\RepeatInterval\":"10","\DisplayFormat\":"
{\Content1\":"CustomContent","\Interval1\":"n","\Content2\":"UserName
\","\Interval2\":"4","\Content3\":"DateTime\}}",
  "lean" : -45,
  "content_customized" : "string",
  "content_color" : 522857002,
  "watermark_security_access" : false,
  "user_extend_info_switch" : false,
  "user_extend_info" : "string"
}
},
"keyboard_mouse" : {
  "mouse_feedback" : "SELFADAPTION",
  "mouse_simulation_mode" : "ABSOLUTE_POSITION",
  "external_cursor_feedback" : false,
  "selfhelp_console_enable" : true,
  "client_mouse_send_interval" : 30,
  "windows_client_keyboard_mode" : "GLOBAL",
  "windows_client_mouse_mode" : "WINDOW",
  "linux_client_keyboard_mode" : "EVENT",
  "linux_client_mouse_mode" : "EVENT",
  "special_keyboard" : false,
  "joy_stick_flag" : false
},
"seamless" : {
  "seamless_enable" : false,
  "options" : {
    "seamless_apply_path" : "string"
  }
},
"personalized_data_mgmt" : {
  "personalized_data_mgmt_path" : "string",
  "user_data_roaming_enable" : false,
  "user_data_roaming_options" : {
    "profile_streaming_enable" : false,
    "roamed_files_local_path" : "string",
    "exclude_folders_path" : "string",
    "roaming_registry_method" : "string",
    "roaming_registry_path" : "string"
  },
  "user_folder_redirection_enable" : false,
  "user_folder_redirection_options" : {
    "restore_local_directories_enable" : false,
    "appData_roaming_enable" : false,
    "redirec_desktop" : false,
    "redirec_start_menu" : false,
    "redirec_documents" : false,
    "redirec_pictures" : false,
    "redirec_music" : false,
    "redirec_videos" : false,
    "redirec_favorites" : false,
    "redirec_contacts" : false,
    "redirec_downloads" : false,
    "redirec_links" : false,
    "redirec_searches" : false,
    "redirec_saved_games" : false
  },
  "logoff_delete_user_configuration" : false,
  "network_drive_mapping_enable" : false,
  "network_drive_mapping_options" : {
    "network_drive_mapping_path" : "string",

```


Error Codes

See [Error Codes](#).

4.14.6 Querying Policy Items of a Policy Group

Function

Queries policy items of a specified policy group.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/policy-groups/{policy_group_id}/policies

Table 4-1728 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
policy_group_id	Yes	String	Policy group ID.

Table 4-1729 Query Parameters

Parameter	Mandatory	Type	Description
policy_type	No	String	<p>Results are filtered by policy type. If this parameter is not specified, all policies are queried.</p> <p>Options:</p> <ul style="list-style-type: none"> ● Peripherals ● Audio ● Client ● Display ● FileAndClip: files & clipboards ● ClientAccessControl: access control ● SessionAutoDisconnect: sessions ● VirtualChannel: virtual channels ● Watermark ● KeyboardAndMouse: keyboards and mouse devices ● Seamless: general audio/video bypass ● RecordAudit: screen recording audit

Request Parameters

Table 4-1730 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	<p>User token.</p> <p>It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.</p>
Content-Type	Yes	String	<p>MIME type of the request body, for example, application/json.</p>

Response Parameters

Status code: 200

Table 4-1731 Response body parameters

Parameter	Type	Description
policies	Policies object	Policy class.

Table 4-1732 Policies

Parameter	Type	Description
peripherals	peripherals object	Peripheral.
audio	audio object	Audio.
client	client object	Client.
display	display object	Display.
file_and_clipboard	file_and_clipboard object	Files and clipboards.
session	Session object	Sessions.
virtual_channel	VirtualChannel object	Virtual channels.
watermark	Watermark object	Watermarking.
keyboard_mouse	keyboard_mouse object	Keyboards and mouse devices.
seamless	seamless object	Audio/Video bypass.
personalized_data_mgmt	personalized_data_mgmt object	Personalized data management.
custom	custom object	Custom policy.
record_audit	record_audit object	Screen recording audit.

Table 4-1733 peripherals

Parameter	Type	Description
usb_custom_policy_debug	String	Device debugging policy.

Parameter	Type	Description
usb_port_redirection	usb_port_redirection object	USB port redirection.
device_redirection	device_redirection object	Device redirection.
usb_device_common	usb_device_common object	USB and device smartcard options.
serial_port_redirection	serial_port_redirection object	Serial port redirection.
parallel_port_redirection	parallel_port_redirection object	Parallel port redirection.
driver_interface_redirection	driver_interface_redirection object	Driver interface redirection.

Table 4-1734 usb_port_redirection

Parameter	Type	Description
usb_enable	Boolean	Whether to enable USB port redirection. Options: false : disable; true : enable
options	options object	USB port redirection options.

Table 4-1735 options

Parameter	Type	Description
usb_image_enable	Boolean	Whether to enable image devices, such as scanners. Options: false : disable; true : enable
usb_video_enable	Boolean	Whether to enable video devices, such as cameras. Options: false : disable; true : enable
usb_printer_enable	Boolean	Whether to enable print devices, such as printers. Options: false : disable; true : enable

Parameter	Type	Description
usb_storage_enable	Boolean	Whether to enable storage devices, such as USB flash drives. Options: false : disable; true : enable
wireless_devices_enable	Boolean	Whether to enable wireless devices, such as Bluetooth. Options: false : disable; true : enable
network_devices_enable	Boolean	Whether to enable network devices, such as wireless NICs. Options: false : disable; true : enable
usb_smart_card_enable	Boolean	Whether to enable smartcard devices, such as USB keys. Options: false : disable; true : enable
other_usb_devices_enable	Boolean	Whether to enable the redirection of other USB devices. Options: false : disable; true : enable
usb_redirection_customization_policy	String	Custom policy for USB port redirection. The value contains a maximum of 18,000 characters.
usb_redirection_mode	String	USB redirection mode. Options: Classical mode Common mode

Table 4-1736 device_redirection

Parameter	Type	Description
printer_redirection	printer_redirection object	Printer redirection.
session_printer	session_printer object	Session printer.
camera_redirection	camera_redirection object	Camera redirection.

Parameter	Type	Description
twain_redirection_enable	Boolean	Whether to enable TWAIN device redirection. Options: false : disable; true : enable
image_compression_level	String	Image compression level. Options: none low (highest speed) medium (medium speed) high (lowest speed) lossless low-loss medium-loss high-loss
hid_redirection	hid_redirection object	Human interface device (HID) redirection.

Table 4-1737 printer_redirection

Parameter	Type	Description
printer_enable	Boolean	Whether to enable printer redirection. Options: false : disable; true : enable
options	options object	Printer redirection options.

Table 4-1738 options

Parameter	Type	Description
mobile_printer_enable	Boolean	Mobile client printer redirection. Options: false : disable; true : enable
print_data_compression_mode	Boolean	Whether to enable data compression. Options: false : disable; true : enable

Parameter	Type	Description
sync_client_default_printer_enable	Boolean	Whether to enable default client printer synchronization. Options: false : disable; true : enable
universal_printer_driver	String	Universal printer driver. By default, choose Universal Printing PS for Linux clients and HDP XPSDrv Driver for Windows clients. Options: HDP XPSDrv Driver ; Universal Printing PCL 5 Universal Printing PCL 6 Universal Printing PS

Table 4-1739 session_printer

Parameter	Type	Description
session_printer_enable	Boolean	Whether to enable session printers. Options: false : disable; true : enable
options	options object	Session printer options.

Table 4-1740 options

Parameter	Type	Description
session_printer_customization_policy	String	Custom session printer policy. A maximum of 1,000 characters are allowed.

Table 4-1741 camera_redirection

Parameter	Type	Description
video_compress_enable	Boolean	Whether to enable camera redirection. Options: false : disable; true : enable
options	options object	Camera redirection options.

Table 4-1742 options

Parameter	Type	Description
camera_frame_rate	Integer	Camera frame rate (FPS). The value ranges from 1 to 30. Default: 15
camera_max_width	Integer	Camera maximum width (pixel). The value ranges from 1 to 9999. Default: 3000
camera_max_height	Integer	Camera maximum height (pixel). The value ranges from 1 to 9999. Default: 3000
camera_compression_method	String	Camera data compression method. The value is H.264 .

Table 4-1743 hid_redirection

Parameter	Type	Description
hid_redirection_enable	Boolean	Whether to enable HID redirection. Options: false : disable; true : enable
options	options object	HID options.

Table 4-1744 options

Parameter	Type	Description
hid_redirection_customization_policy	String	Custom HID redirection policy.

Table 4-1745 usb_device_common

Parameter	Type	Description
pcsc_smart_card_enable	String	Whether to enable PC/SC smartcard redirection. Options: Enable : enabled Closed : closed Disable : disabled
common_options	common_options object	Options for both USB devices and device smartcards.

Table 4-1746 common_options

Parameter	Type	Description
remove_smart_card_disconnect_enable	Boolean	Whether to enable smartcard removal to log out of user sessions. Options: false : disable; true : enable

Table 4-1747 serial_port_redirection

Parameter	Type	Description
serial_port_enable	Boolean	Whether to enable serial port redirection. Options: false : disable; true : enable
options	options object	Serial port redirection options.

Table 4-1748 options

Parameter	Type	Description
auto_connect_enable	Boolean	Whether to enable automatic connection to client serial ports. Options: false : disable; true : enable

Table 4-1749 parallel_port_redirection

Parameter	Type	Description
parallel_port_enable	Boolean	Whether to enable parallel port redirection. Options: false : disable; true : enable

Table 4-1750 driver_interface_redirection

Parameter	Type	Description
api_redir_driver_list	String	Custom drivers. Enter one or more driver file names or full paths of driver files installed on terminals. Separate file names or paths with semicolons (;). A maximum of 1,000 characters are allowed.

Table 4-1751 audio

Parameter	Type	Description
audio_redirection_enable	Boolean	Whether to enable audio redirection. Options: false : disable; true : enable
play_volume	String	Playback volume. If this parameter is not specified, the value is Do Not Set Volume . Volume setting. The value ranges from 10 to 100, and the interval between two adjacent values is 5 in ascending order, for example, 10, 15, 20, and 25.
play_volume_ratio	String	Playback volume ratio. Options: If this parameter is not specified, the value is Do Not Set Volume Ratio . Low Middle : medium High
record_volume	String	Recording volume. If this parameter is not specified, the value is Do Not Set Volume . Volume setting. The value ranges from 10 to 100, and the interval between two adjacent values is 5 in ascending order, for example, 10, 15, 20, and 25.

Parameter	Type	Description
record_volume_ratio	String	Recording volume ratio. Options: If this parameter is not specified, the value is Do Not Set Volume Ratio . Low Middle : medium High
audio_transmission_mode	String	Audio transmission mode. Options: Reliable Transmission Real Time Transmission
play_redirection_enable	Boolean	Whether to enable playback redirection. Options: false : disable; true : enable
play_classification	String	Playback scenario. Options: Lossless Speech Call Music Play Automatic Identification
play_quality	String	Playback quality. Options: Low Middle : medium High
play_denoising	String	Playback denoising. Options: Disabled. Enabled: The value ranges from -100 to -5, and the interval between two adjacent values is 5 in ascending order, for example, -100, -95, -90, and -85.
play_agc	String	Playback AGC. Options: Disabled. Enabled: The value ranges from 4,000 to 32,000. From 10,000 on, the interval between two adjacent values is 1,000 in ascending order, for example, 4,000, 6,000, 8,000, 10,000, 11,000, 12,000 and 13,000.
play_crc	String	Playback CRC. Options: Disable CRC Enable CRC

Parameter	Type	Description
play_device_mode	String	Playback device mode. Options: Play Device In Shared Mode Play Device In Exclusive Mode
play_delay_threshold	String	Playback delay threshold. The value ranges from 160 to 2,500. The values less than 400 are in ascending order with an interval of 40, and the values between 400 and 1,000 are in ascending order with an interval of 50. For example, the values can be as follows: 2,500, 2,000, 1,800, 1,500, 1,200, 1,000, 950, 900, 850.
play_amplitude_threshold	String	Playback amplitude threshold. The values can be: 2,048, 4,096, 5,120, 6,144, 7,168, 8,192.
play_prefill_data	String	Playback prefill data. Options: Do Not Prefill Data ; Prefill Data : The value ranges from 50 to 2,000. The values less than 250 are in an ascending order with an interval of 50, and the values between 250 and 500 are in an ascending order with an interval of 100. For example, the values can be as follows: 2,000, 1,500, 1,000, 500, 400, 300, 250.
record_redirection_enable	Boolean	Whether to enable recording redirection. Options: false : disable; true : enable
record_classification	String	Recording scenario. Options: Lossless Speech Call Music Record Automatic Identification
record_quality	String	Recording quality. Options: Low Middle : medium High

Parameter	Type	Description
record_denoising	String	Recording denoising. Options: Disabled. Enabled: The value ranges from -100 to -5, and the interval between two adjacent values is 5 in ascending order, for example, -100, -95, -90, and -85.
record_agc	String	Recording AGC. Options: Disabled. Enabled: The value ranges from 4,000 to 32,000. From 10,000 on, the interval between two adjacent values is 1,000 in ascending order, for example, 4,000, 6,000, 8,000, 10,000, 11,000, 12,000 and 13,000.
record_crc	String	Recording CRC. Options: Disable CRC Enable CRC
record_device_mode	String	Recording device mode. Options: Record Device In Shared Mode Record Device In Exclusive Mode
record_delay_threshold	String	Recording delay threshold. The value ranges from 160 to 2,500. The values less than 400 are in ascending order with an interval of 40, and the values between 400 and 1,000 are in ascending order with an interval of 50. For example, the values can be as follows: 2,500, 2,000, 1,800, 1,500, 1,200, 1,000, 950, 900, 850.
record_amplitude_threshold	String	Recording amplitude threshold. The values can be: 2,048, 4,096, 5,120, 6,144, 7,168, 8,192.

Table 4-1752 client

Parameter	Type	Description
automatic_reconnection_interval	Integer	Automatic reconnection interval, in second. The value ranges from 1 to 50. Default: 5
session_persistence_time	Integer	Session persistence duration, in second. The value ranges from 0 to 180. Default: 180

Parameter	Type	Description
autoclose_monitor_after_locked	Boolean	Automatic monitor shutdown after screen locking. Options: false : disable; true : enable
autoclose_monitor_options	autoclose_monitor_options object	Options for automatic monitor shutdown.
forbid_screen_capture	Boolean	Whether to enable screen capture prevention. Options: false : disable; true : enable
client_machine_join_domain	Boolean	Whether to verify the domain of a terminal. false : disable; true : enable
client_type	client_type object	Terminal type login control.

Table 4-1753 autoclose_monitor_options

Parameter	Type	Description
autoclose_monitor_wait_time	Integer	Time before automatic monitor shutdown, in second. The value ranges from 10 to 600,000. Default: 300

Table 4-1754 client_type

Parameter	Type	Description
client_type_limit	Boolean	Whether to enable terminal type login control. false : disable; true : enable
options	options object	Options for terminal type login control.

Table 4-1755 options

Parameter	Type	Description
sc_type_window	Boolean	Whether to select the Windows client. Options: false : not selected true : selected
sc_type_mac	Boolean	Whether to select the macOS client. Options: false : not selected true : selected
sc_type_android	Boolean	Whether to select the Android client. Options: false : not selected true : selected
sc_type_linux	Boolean	Whether to select the Linux client. Options: false : not selected true : selected
sc_type_h5	Boolean	Whether to select the web client. Options: false : not selected true : selected
sc_type_ios	Boolean	Whether to select the iOS client. Options: false : not selected true : selected
sc_type_harmony_os	Boolean	Whether to select the HarmonyOS client. Options: false : not selected true : selected
tc_type_all	Boolean	Whether to select all hardware terminals. Options: false : not selected true : selected

Table 4-1756 display

Parameter	Type	Description
display_level	String	Display level. Options: LEVEL 1 LEVEL 2 LEVEL 3 LEVEL 4 (default/recommended) LEVEL 5
options	options object	Display level options.
rendering_acceleration_enable	Boolean	Whether to enable rendering acceleration. Options: false : disable; true : enable
rendering_acceleration_options	rendering_acceleration_options object	Rendering acceleration options.
adaptive_bitrate_control_enable	Boolean	Whether to enable adaptive bitrate. Options: false : disable; true : enable
adaptive_bitrate_control_options	adaptive_bitrate_control_options object	Adaptive bitrate options.
video_card_memory_size	Integer	GPU card cache (MB). The value ranges from 0 to 64. Default: 64
configuration1_enable	Boolean	Whether to enable configuration item 1. Options: false : disable; true : enable
driver_delegation_mode_enable	Boolean	Whether to enable driver delegation. Options: false : disable; true : enable
driver_delegation_latency	Integer	Driver delegation latency (x 30 ms). The value ranges from 1 to 100. Default: 80
video_latency	Integer	Driver delegation video latency (x 30 ms). The value ranges from 1 to 100. Default: 80

Parameter	Type	Description
change_resolution_vm	Boolean	Whether to enable resolution change. Options: false : disable; true : enable
application_recognition	String	Application recognition. A maximum of 1,024 characters are allowed.
duplicate_display_enable	Boolean	Duplicate display. Options: false : disable; true : enable
default_mapping_order	String	Default screen mapping sequence. Default: 1, 2, 3, 4
duplicate_display_mode	String	Duplicate display mode. Options: One-to-One : Only one channel is supported. One-to-Many : Multiple channels are supported.

Table 4-1757 options

Parameter	Type	Description
display_bandwidth	Integer	Bandwidth (kbit/s). The value ranges from 256 to 25,000. Default: 20,000
frame_rate	Integer	Frame rate (FPS). The value ranges from 1 to 60. Default: 25
video_frame_rate	Integer	Video frame rate (FPS). The value ranges from 1 to 60. Default: 30
min_image_cache	Integer	Minimum capacity for image cache (MB). The value ranges from 0 to 300. Default: 200
smoothing_factor	Integer	Lossy compression recognition threshold. The value ranges from 0 to 255. Default: 60
lossless_compression_mode	String	Lossless compression. Options: Basic Compression Deep Compression
deep_compression_options	deep_compression_options object	Deep compression options.

Parameter	Type	Description
lossy_compression_quality	Integer	Lossy compression quality. The value ranges from 20 to 100. Default: 85
color_enhancement_enable	Boolean	Whether to enable color enhancement for office work. Options: false : disable; true : enable
quality_bandwidth_first	String	Quality/Bandwidth first. Options: Quality First Bandwidth First
video_bit_rate_options	video_bit_rate_options object	Video bitrate options.
peak_video_bit_rate	Integer	Peak video bitrate (kbit/s). The value ranges from 256 to 100,000. Default: 18,000
video_quality_options	video_quality_options object	Video quality options.
gop_size	Integer	GOP size. The value ranges from 0 to 65535. Default: 100
encoding_preset	String	Encoding preset. Options: Preset 1 Preset 2 Preset 3 Preset 4 Preset 5 Preset 6 Preset 7

Table 4-1758 deep_compression_options

Parameter	Type	Description
deep_compression_level	String	Deep compression level. Options: Compression grade 0 Compression grade 1 Compression grade 2 Compression grade 3 Compression grade 4 Compression grade 5 Compression grade 6 Compression grade 7 Compression grade 8 Compression grade 9

Table 4-1759 video_bit_rate_options

Parameter	Type	Description
average_video_bit_rate	Integer	Average video bitrate (kbit/s). The value ranges from 256 to 100,000. Default: 18,000

Table 4-1760 video_quality_options

Parameter	Type	Description
average_video_quality	Integer	Average video quality. The value ranges from 5 to 59. Default: 15
lowest_video_quality	Integer	Lowest video quality. The value ranges from 5 to 69. Default: 25
highest_video_quality	Integer	Highest video quality. The value ranges from 1 to 59. Default: 7

Table 4-1761 rendering_acceleration_options

Parameter	Type	Description
video_acceleration_enhancement_enable	Boolean	Whether to enable video acceleration enhancement. Options: false : disable; true : enable

Parameter	Type	Description
video_optimization_enable	Boolean	Whether to enable video scene optimization. Options: false : disable; true : enable
gpu_color_optimization_enable	Boolean	Whether to enable GPU color optimization. Options: false : disable; true : enable
video_recognition_threshold	Integer	Video recognition threshold. The value ranges from 0 to 500. Default: 10
frame_rate_statistical_length	Integer	Frame rate statistical length. The value ranges from 2 to 100. Default: 4
image_quality_threshold	Integer	Image quality threshold. The value ranges from 0 to 100. Default: 0
refresh_frequency_threshold	Integer	Refresh frequency threshold. The value ranges from 1 to 100. Default: 3
exiting_video_area_threshold	Integer	Threshold of exiting the video area. The value ranges from 0 to 100. Default: 8
min_video_width	Integer	Minimum video width. The value ranges from 0 to 1,280. Default: 191
min_video_length	Integer	Minimum video height. The value ranges from 0 to 1,280. Default: 191
single_frame_natural_percentage	String	Threshold of the single-frame natural image block percentage. The value ranges from 0.000001 to 1. Default: 0.3
cyclical_natural_images_number	Integer	Threshold of cyclical natural image quantity percentage. The value ranges from 0 to 100. Default: 2
non_natural_image_percentage	String	Threshold of the non-natural image area percentage. The value ranges from 0.000001 to 1. Default: 0.85
non_natural_images_number	Integer	Threshold of non-natural image quantity percentage. The value ranges from 0 to 100. Default: 25

Table 4-1762 adaptive_bitrate_control_options

Parameter	Type	Description
peak_bandwidth_suppression_enable	Boolean	Whether to enable peak bandwidth suppression. Options: false : disable; true : enable
expected_average_network_latency	Integer	Expected average network latency, in millisecond. The value ranges from 1 to 2,000. Default: 160
network_latency_threshold1	Integer	Network latency threshold 1 (ms). The value ranges from 1 to 2,000. Default: 160
network_latency_threshold2	Integer	Network latency threshold 2 (ms). The value ranges from 1 to 2,000. Default: 300
min_dynamic_frame_rate	Integer	Minimum dynamic frame rate (FPS). The value ranges from 1 to 60. Default: 17
min_dynamic_frame_rate_lv1	Integer	Minimum dynamic frame rate level 1 (FPS). The value ranges from 1 to 60. Default: 17
min_dynamic_frame_rate_lv2	Integer	Minimum dynamic frame rate level 2 (FPS). The value ranges from 1 to 60. Default: 10
rtt_threshold	Integer	Frame rate control parameter 1. The value ranges from 0 to 1,000. Default: 20
min_add_framerate	Integer	Frame rate control parameter 2. The value ranges from 0 to 120. Default: 8
max_add_framerate	Integer	Frame rate control parameter 3. The value ranges from 0 to 120. Default: 20
sub_framerate	Integer	Frame rate control parameter 4. The value ranges from 0 to 120. Default: 25
adaptive_bandwidth_lower_limit	Integer	Adaptive bandwidth lower limit, in kbit/s. The value ranges from 100 to 20,000. Default: 500
adaptive_compression_quality_lower_limit	Integer	Lower limit of adaptive lossy compression quality. The value ranges from 1 to 100. Default: 60

Parameter	Type	Description
adaptive_compression_quality_upper_limit	Integer	Upper limit of adaptive lossy compression quality. The value ranges from 1 to 100. Default: 85
adaptive_compression_quality_increase_limit	Integer	Increase limit of adaptive lossy compression quality. The value ranges from 1 to 100. Default: 5
adaptive_compression_quality_decrease_limit	Integer	Decrease limit of adaptive lossy compression quality. The value ranges from 1 to 100. Default: 10
adaptive_average_quality_lower_limit	Integer	Lower limit of adaptive average video quality. The value ranges from 5 to 50. Default: 15
adaptive_average_quality_upper_limit	Integer	Upper limit of adaptive average video quality. The value ranges from 5 to 50. Default: 25
adaptive_average_quality_increase_limit	Integer	Increase limit of adaptive average video quality. The value ranges from 1 to 50. Default: 3
adaptive_average_quality_decrease_limit	Integer	Decrease limit of adaptive average video quality. The value ranges from 1 to 50. Default: 1
adaptive_min_quality_lower_limit	Integer	Lower limit of adaptive minimum video quality. The value ranges from 5 to 69. Default: 25
adaptive_min_quality_upper_limit	Integer	Upper limit of adaptive minimum video quality. The value ranges from 5 to 69. Default: 30
adaptive_min_quality_increase_limit	Integer	Increase limit of adaptive minimum video quality. The value ranges from 1 to 50. Default: 3
adaptive_min_quality_decrease_limit	Integer	Decrease limit of adaptive minimum video quality. The value ranges from 1 to 50. Default: 1

Table 4-1763 file_and_clipboard

Parameter	Type	Description
file_redirection	file_redirection object	File redirection.

Parameter	Type	Description
clip_length_limit_f lag_c2s	Boolean	Clipboard length.
clip_length_limit_c 2s	Integer	Client clipboard length.
clip_length_limit_f lag_s2c	Boolean	Clipboard length.
clip_length_limit_s 2c	Integer	Client clipboard length.
fd_mobile_client_r edir_enable	Boolean	Whether to enable mobile client file redirection. Options: false : disable; true : enable
clipboard_redirecti on	String	Clipboard redirection. Options: DISABLED (default) SERVER_TO_CLIENT_ENABLED (from the server to the client) CLIENT_TO_SERVER_ENABLED (from the client to the server) TWO_WAY_ENABLED (two-way)
clipboard_redirecti on_options	clipboard_redirec tion_options object	Clipboard redirection options.

Table 4-1764 file_redirection

Parameter	Type	Description
redirection_mode	String	File redirection. Options: DISABLED (default) READ_ONLY READ_AND_WRITE
options	options object	File redirection options.
vm_send_file_clien t	Boolean	Whether to enable the function of sending files from the VM to the client. Options: false : disable; true : enable
redirection_send_f ile_options	redirection_send_f ile_options object	Options for both redirection and file sending.

Table 4-1765 options

Parameter	Type	Description
fluid_control_switch_enable	Boolean	Whether to enable rate limit. Options: false : disable; true : enable
fluid_control_options	fluid_control_options object	Rate limit options.
compression_switch_enable	Boolean	Whether to enable compression. Options: false : disable; true : enable
compression_switch_options	compression_switch_options object	Compression options.
linux_file_size_supported_enable	Boolean	Whether to enable the function of setting the file size in Linux. Options: false : disable; true : enable
linux_file_size_supported_options	linux_file_size_supported_options object	Options for setting the file size in Linux.
linux_root_mount_switch_enable	Boolean	Whether to enable root directory mount in Linux. Options: false : disable; true : enable
linux_root_dir_list	String	Mount path of the Linux root directory. Default: \var\log
linux_file_mount_path	String	Mount path of the Linux file system. Default: \media\Volumes\swdb\mnt\home\storage\tmp\run\media
linux_fixed_drive_file_system_format	String	Linux fixed driver file system format.
linux_removable_drive_file_system_format	String	Linux removable driver file system format. Default: vfat ntfs msdos fuseblk sdcardfs exfat fuse.fdir lifs
linux_cdrom_drive_file_system_format	String	Linux CD-ROM driver file system format. Default: cd9660 iso9660 udf

Parameter	Type	Description
linux_network_drive_file_system_format	String	Linux network driver file system format. Default: smbfs afpfs cifs
path_separator	String	Path separator. Default:
fixed_drive_enable	Boolean	Whether to enable fixed drivers (such as local disks). Options: false : disable; true : enable
removable_drive_enable	Boolean	Whether to enable removable drivers (such as USB flash drives). Options: false : disable; true : enable
cd_rom_drive_enable	Boolean	Whether to enable CD-ROM drivers. Options: false : disable; true : enable
network_drive_enable	Boolean	Whether to enable network drivers. Options: false : disable; true : enable

Table 4-1766 fluid_control_options

Parameter	Type	Description
good_network_latency	Integer	Good network latency threshold (ms). The value ranges from 1 to 1,000. Default: 30
normal_network_latency	Integer	Normal network latency threshold (ms). The value ranges from 1 to 1,000. Default: 70
poor_network_latency	Integer	Poor network latency threshold (ms). The value ranges from 1 to 1,000. Default: 100
reducing_step	Integer	Reducing step (KB). The value ranges from 1 to 100. Default: 20
slow_increasing_step	Integer	Slow increasing step (KB). The value ranges from 1 to 100. Default: 10

Parameter	Type	Description
quick_increasing_step	Integer	Quick increasing step (KB). The value ranges from 1 to 100. Default: 20
start_speed	Integer	Initial transmission speed (KB/s). The value ranges from 1 to 10,240. Default: 1,024
test_block_size	Integer	Speed test block size (KB). The value ranges from 64 to 1,024. Default: 64
test_time_gap	Integer	Speed test block interval (ms). The value ranges from 1,000 to 100,000. Default: 10,000

Table 4-1767 compression_switch_options

Parameter	Type	Description
compression_threshold	Integer	Compression threshold (byte). The value ranges from 0 to 10,240. Default: 512
minimum_compression_rate	Integer	Minimum compression rate. The value ranges from 0 to 1,000. Default: 900

Table 4-1768 linux_file_size_supported_options

Parameter	Type	Description
linux_file_size_supported_threshold	Integer	File size threshold in Linux (byte). The value ranges from 0 to 4,096. Default: 100

Table 4-1769 redirection_send_file_options

Parameter	Type	Description
read_write_speed	Integer	Read/Write speed (kbit/s). The value ranges from 0 to 2147483647. Default: 0

Table 4-1770 clipboard_redirection_options

Parameter	Type	Description
rich_text_redirection_enable	Boolean	Whether to enable clipboard rich text redirection. Options: false : disable; true : enable
clipboard_file_redirection_enable	Boolean	Whether to enable clipboard file redirection. Options: false : disable; true : enable

Table 4-1771 Session

Parameter	Type	Description
vdi	Vdi object	VDI.
self_help_console	Boolean	Whether to enable preemption login to the self-help console. Options: false : disable; true : enable
disconnect_on_lock_flag	Boolean	Whether to disconnect after the screen is locked.
auto_lock_start_time	String	Start time when the lock takes effect. The format is hh:mm:ss.
auto_lock_end_time	String	Start time when the lock takes effect. The format is hh:mm:ss.

Table 4-1772 Vdi

Parameter	Type	Description
auto_lock_enable	Boolean	Whether to enable automatic screen locking. Options: false : disable; true : enable
auto_lock_options	AutoLockOptions object	Options available after automatic screen locking is enabled.
disconnect_logout_enable	Integer	Whether to enable automatic logout upon disconnection. Options: 0 : disable; 1 : enable
disconnect_logout_options	DisconnectLogoutOptions object	Options available after automatic logout upon disconnection is enabled.

Parameter	Type	Description
disconnect_hibernate_enable	Boolean	Whether to enable automatic logout upon disconnection. Options: 0 : disable; 1 : enable
disconnect_hibernate_options	disconnect_hibernate_options object	Options for hibernation upon disconnection.
no_operation_hibernate_enable	Boolean	Whether to enable automatic logout upon disconnection. Options: 0 : disable; 1 : enable
no_operation_hibernate_options	no_operation_hibernate_options object	Do not select the hibernation option.

Table 4-1773 AutoLockOptions

Parameter	Type	Description
auto_lock_minutes	Integer	Time before screen locking, in minute. The value ranges from 3 to 86,400. Default: 10
auto_disconnect	String	Automatic disconnection or logout. Options: AUTO_DISCONNECT (automatic disconnection); AUTO_LOGOUT (automatic logout); DISABLED (disabled); AUTO_RESTART (default, automatic restart); AUTO_STOP (automatic shutdown); HIBERNATE (hibernation)
options	AutoDisconnectOrLogoutControlOptions object	Options available after automatic disconnection or automatic logout is enabled.

Table 4-1774 AutoDisconnectOrLogoutControlOptions

Parameter	Type	Description
auto_disconnect_minutes	Integer	Time before disconnection or logout, in minute. The value ranges from 1 to 86,400. Default: 1,440

Table 4-1775 DisconnectLogoutOptions

Parameter	Type	Description
disconnect_logout_minutes	Integer	Time before automatic logout upon disconnection, in minute. The value ranges from 3 to 86,400. Default: 10

Table 4-1776 disconnect_hibernate_options

Parameter	Type	Description
disconnect_hibernate_minutes	Integer	Hibernation duration upon disconnection.

Table 4-1777 no_operation_hibernate_options

Parameter	Type	Description
no_operation_hibernate_minutes	Integer	Policy group ID.

Table 4-1778 VirtualChannel

Parameter	Type	Description
virtual_channel_control_enable	Boolean	Whether to enable the virtual channel policy. Options: false : disable; true : enable
options	VirtualChannelOptions object	Virtual channel policy options.

Table 4-1779 VirtualChannelOptions

Parameter	Type	Description
custom_virtual_channel_name	String	Custom registered virtual channel name. Currently, only ASCII characters are supported. The value can contain a maximum of 65,535 characters.
virtual_channel_plugin_details	String	Virtual channel download details (Base64-encoded). Before encryption, only ASCII characters are supported. The value can contain a maximum of 65,535 characters.

Parameter	Type	Description
third_party_plugin_name	String	Third-party plug-in name. The value can contain a maximum of 65,535 characters.

Table 4-1780 Watermark

Parameter	Type	Description
watermark_enable	Boolean	Indicates whether to enable the watermark policy. Options: false : disable; true : enable
options	WatermarkOptions object	Watermark policy options.

Table 4-1781 WatermarkOptions

Parameter	Type	Description
show_style	String	Display mode. Options: FIXED (fixed position); RANDOM (random motion)
color	String	Color. Format: RRGGBB . Default: 2a2a2a
font_size	Integer	Font size. The value ranges from 1 to 200. Default: 30
opacity_setting	String	Opacity (%). The value ranges from 0 to 100. Default: 12.5
content_item_count	Integer	Number of watermarks. The value ranges from 1 to 30. Default: 1
display_format	String	Watermark content display format.
lean	Integer	Tilt. The value ranges from -90 to 90. Default: -45
content_customized	String	Custom content, which cannot contain special characters such as >.
content_color	String	Content color.
watermark_security_access	Boolean	Whether to enable the security-first mode.
user_extend_info_switch	Boolean	Whether to enable extended user information. false : disable; true : enable

Parameter	Type	Description
user_extend_info	String	Extended user information.

Table 4-1782 keyboard_mouse

Parameter	Type	Description
mouse_feedback	String	VM mouse device feedback. Options: SELFADAPTION : adaptive mouse device feedback FORCE : forcible mouse device feedback CLOSE : no mouse device feedback
mouse_simulation_mode	String	VM mouse device simulation mode. Options: ABSOLUTE_POSITION : absolute position simulation RELATIVE_POSITION : relative position simulation
external_cursor_feedback	Boolean	Whether to enable VM external cursor feedback. Options: false : disable; true : enable
selfhelp_console_enable	Boolean	Whether to enable preemption login to the self-help console. Options: false : disable; true : enable
client_mouse_send_interval	Integer	Interval for sending mouse device operations on the client. The value ranges from 1 to 30. Default: 30
windows_client_keyboard_mode	String	Windows client keyboard mode. Options: GLOBAL : global mode for Windows client keyboards (default) WINDOW : windowed mode for for Windows client keyboards

Parameter	Type	Description
windows_client_mouse_mode	String	Windows client mouse device mode. Options: GLOBAL : global mode for Windows client mouse devices WINDOW : windowed mode for Windows client mouse devices (default)
linux_client_keyboard_mode	String	Linux client keyboard mode. Options: EVENT : event mode for Linux client keyboards (default) GRAPH : graphics mode for Linux client keyboards
linux_client_mouse_mode	String	Linux client mouse device mode. Options: EVENT : event mode for Linux client mouse devices (default) GRAPH : graphics mode for Linux client mouse devices
special_keyboard	Boolean	Special keyboard. Options: false : disable; true : enable
joy_stick_flag	Boolean	Joystick. Options: false : disable; true : enable

Table 4-1783 seamless

Parameter	Type	Description
seamless_enable	Boolean	Whether to enable audio/video bypass. Options: false : disable; true : enable
options	options object	General audio/video settings.

Table 4-1784 options

Parameter	Type	Description
seamless_apply_path	String	Software path. A maximum of 1,000 characters are allowed.

Table 4-1785 personalized_data_mgmt

Parameter	Type	Description
personalized_data_mgmt_path	String	Personalized data management path.
user_data_roaming_enable	Boolean	User data roaming.
user_data_roaming_options	user_data_roaming_options object	User data roaming options.
user_folder_redirection_enable	Boolean	Enables user folder redirection.
user_folder_redirection_options	user_folder_redirection_options object	User folder redirection options.
logoff_delete_user_configuration	Boolean	Enables user folder redirection.
network_drive_mapping_enable	Boolean	Enables user folder redirection.
network_drive_mapping_options	network_drive_mapping_options object	Network driver mapping options.

Table 4-1786 user_data_roaming_options

Parameter	Type	Description
profile_streaming_enable	Boolean	Whether to enable profile streaming.
roamed_files_local_path	String	Local path of roamed files.
exclude_folders_path	String	Path of an excluded folder.
roaming_registry_method	String	Path of an excluded folder.

Parameter	Type	Description
roaming_registry_path	String	Path of roaming registration.

Table 4-1787 user_folder_redirection_options

Parameter	Type	Description
restore_local_directories_enable	Boolean	Enables the restoration of local directories.
appData_roaming_enable	Boolean	Enables application data roaming.
redirec_desktop	Boolean	Desktop redirection.
redirec_start_menu	Boolean	Start menu.
redirec_documents	Boolean	Document.
redirec_pictures	Boolean	Photo.
redirec_music	Boolean	Music.
redirec_videos	Boolean	Audio recording.
redirec_favorites	Boolean	Favorite.
redirec_contacts	Boolean	Audio recording.
redirec_downloads	Boolean	Download.
redirec_links	Boolean	Link
redirec_searches	Boolean	Search.
redirec_saved_games	Boolean	Game storage.

Table 4-1788 network_drive_mapping_options

Parameter	Type	Description
network_drive_mapping_path	String	Network drive mapping path.
drive_letter	String	Path of an excluded folder.

Table 4-1789 custom

Parameter	Type	Description
custom_configuration1_enable	Boolean	Whether to enable custom configuration.
options	options object	General audio/video settings.

Table 4-1790 options

Parameter	Type	Description
custom_configuration1_rule	String	Custom configuration rule.

Table 4-1791 record_audit

Parameter	Type	Description
enable	Boolean	Whether to enable screen recording audit. Options: false : disable; true : enable
rules	rules object	Screen recording rules.
storage_type	String	Storage type. Options: OBS : OBS bucket SFTP : SFTP interconnection
obs_bucket_source	String	OBS bucket source. Options: AUTO_CREATE : automatically created CREATED : created
obs_bucket_name	String	OBS bucket name
retention_duration	Integer	Retention period of a screen recording file, in days. The value ranges from 1 to 180. 0 indicates that the file is retained permanently.

Table 4-1792 rules

Parameter	Type	Description
rule	RecordAuditRule object	Rule.

Table 4-1793 RecordAuditRule

Parameter	Type	Description
record_type	String	Recording type. Options: whole : continuous screen recording interval : interval screen recording userOperations : screen recording by users sessionMonitoring : screen recording of the session lifecycle
interval_record_start_time	String	Start time of interval-based screen recording. This parameter is valid only when interval is used. The format is hh:mm.
interval_record_end_time	String	End time of interval-based screen recording. This parameter is valid only when interval is used. The format is hh:mm.
op_type	String	Operation triggering type. This parameter is valid only when userOperations is used. Options: input : Screen recording is started once the user enters content. filecopy : Screen recording is started once the user copies a file.
audio_record	Boolean	Whether to enable audio recording. Options: false : disable; true : enable
fps	String	Recording frame rate. The value can be 2, 5, 10, or 15 .
duration	String	Duration of a single video recording file, in minutes. The value can be 10, 20, 30, or 60 .
resolution	String	Resolution settings. The value can be 720P, 1080P, or original .
event_enable	Boolean	Whether to enable key event audit. Options: false : disabled true : enabled
file_suffix	String	File name extension. Use vertical bars () to separate multiple file name extensions.

Parameter	Type	Description
regit_paths	String	Registry path. Use vertical bars () to separate multiple registry paths.
app_filter_type	String	Application filtering type. The value can be black (blacklist) or white (whitelist).
app_white_list	String	Enables or disables the application whitelist. If it is enabled, only the whitelisted applications are monitored.
app_black_list	String	Enables or disables the application blacklist. Blacklisted applications will be ignored.

Status code: 400**Table 4-1794** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401**Table 4-1795** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403

Table 4-1796 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-1797** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 405**Table 4-1798** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500

Table 4-1799 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 503**Table 4-1800** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
GET /v2/089b2f9a3d80d3062f24c00ca4ed5cbd/policy-groups/8ac225c277ceab6d0177cf829bd6008b/policies?policy_type=SessionAutoDisconnect
```

Example Responses

Status code: 200

Response to the request for querying policy items of a policy group.

```
{
  "policies": {
    "session": {
      "vdi": {
        "auto_lock_enable": true,
        "auto_lock_options": {
          "auto_lock_minutes": 10,
          "auto_disconnect": "DISABLED",
          "options": {
            "auto_disconnect_minutes": 1440
          }
        },
        "disconnect_logout_enable": 0,
        "disconnect_logout_options": {
          "disconnect_logout_minutes": 10
        }
      },
      "self_help_console": true,

```

```

"disconnect_on_lock_flag" : false,
"auto_lock_start_time" : "00:00:00",
"auto_lock_end_time" : "23:59:59"
}
}
}

```

Status Codes

Status Code	Description
200	Response to the request for querying policy items of a policy group.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.14.7 Modifying Policy Items of a Policy Group

Function

Modifies some or all policy items of a policy group.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT /v2/{project_id}/policy-groups/{policy_group_id}/policies

Table 4-1801 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Parameter	Mandatory	Type	Description
policy_group_id	Yes	String	Policy group ID.

Request Parameters

Table 4-1802 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body, for example, application/json .

Table 4-1803 Request body parameters

Parameter	Mandatory	Type	Description
policies	No	Policies object	Policy class.

Table 4-1804 Policies

Parameter	Mandatory	Type	Description
peripherals	No	peripherals object	Peripheral.
audio	No	audio object	Audio.
client	No	client object	Client.
display	No	display object	Display.
file_and_clipboard	No	file_and_clipboard object	Files and clipboards.
session	No	Session object	Sessions.

Parameter	Mandatory	Type	Description
virtual_channel	No	VirtualChannel object	Virtual channels.
watermark	No	Watermark object	Watermarking.
keyboard_mouse	No	keyboard_mouse object	Keyboards and mouse devices.
seamless	No	seamless object	Audio/Video bypass.
personalized_data_mgmt	No	personalized_data_mgmt object	Personalized data management.
custom	No	custom object	Custom policy.
record_audit	No	record_audit object	Screen recording audit.

Table 4-1805 peripherals

Parameter	Mandatory	Type	Description
usb_custom_policy_debug	No	String	Device debugging policy.
usb_port_redirection	No	usb_port_redirection object	USB port redirection.
device_redirection	No	device_redirection object	Device redirection.
usb_device_common	No	usb_device_common object	USB and device smartcard options.
serial_port_redirection	No	serial_port_redirection object	Serial port redirection.
parallel_port_redirection	No	parallel_port_redirection object	Parallel port redirection.
driver_interface_redirection	No	driver_interface_redirection object	Driver interface redirection.

Table 4-1806 usb_port_redirection

Parameter	Mandatory	Type	Description
usb_enable	No	Boolean	Whether to enable USB port redirection. Options: false : disable; true : enable
options	No	options object	USB port redirection options.

Table 4-1807 options

Parameter	Mandatory	Type	Description
usb_image_enable	No	Boolean	Whether to enable image devices, such as scanners. Options: false : disable; true : enable
usb_video_enable	No	Boolean	Whether to enable video devices, such as cameras. Options: false : disable; true : enable
usb_printer_enable	No	Boolean	Whether to enable print devices, such as printers. Options: false : disable; true : enable
usb_storage_enable	No	Boolean	Whether to enable storage devices, such as USB flash drives. Options: false : disable; true : enable
wireless_devices_enable	No	Boolean	Whether to enable wireless devices, such as Bluetooth. Options: false : disable; true : enable

Parameter	Mandatory	Type	Description
network_devices_enable	No	Boolean	Whether to enable network devices, such as wireless NICs. Options: false : disable; true : enable
usb_smart_card_enable	No	Boolean	Whether to enable smartcard devices, such as USB keys. Options: false : disable; true : enable
other_usb_devices_enable	No	Boolean	Whether to enable the redirection of other USB devices. Options: false : disable; true : enable
usb_redirection_customization_policy	No	String	Custom policy for USB port redirection. The value contains a maximum of 18,000 characters.
usb_redirection_mode	No	String	USB redirection mode. Options: Classical mode Common mode

Table 4-1808 device_redirection

Parameter	Mandatory	Type	Description
printer_redirection	No	printer_redirection object	Printer redirection.
session_printer	No	session_printer object	Session printer.
camera_redirection	No	camera_redirection object	Camera redirection.
twain_redirection_enable	No	Boolean	Whether to enable TWAIN device redirection. Options: false : disable; true : enable

Parameter	Mandatory	Type	Description
image_compression_level	No	String	Image compression level. Options: none low (highest speed) medium (medium speed) high (lowest speed) lossless low-loss medium-loss high-loss
hid_redirection	No	hid_redirection object	Human interface device (HID) redirection.

Table 4-1809 printer_redirection

Parameter	Mandatory	Type	Description
printer_enable	No	Boolean	Whether to enable printer redirection. Options: false : disable; true : enable
options	No	options object	Printer redirection options.

Table 4-1810 options

Parameter	Mandatory	Type	Description
mobile_printer_enable	No	Boolean	Mobile client printer redirection. Options: false : disable; true : enable
print_data_compression_mode	No	Boolean	Whether to enable data compression. Options: false : disable; true : enable

Parameter	Mandatory	Type	Description
sync_client_default_printer_enable	No	Boolean	Whether to enable default client printer synchronization. Options: false : disable; true : enable
universal_printer_driver	No	String	Universal printer driver. By default, choose Universal Printing PS for Linux clients and HDP XPSDrv Driver for Windows clients. Options: HDP XPSDrv Driver ; Universal Printing PCL 5 Universal Printing PCL 6 Universal Printing PS

Table 4-1811 session_printer

Parameter	Mandatory	Type	Description
session_printer_enable	No	Boolean	Whether to enable session printers. Options: false : disable; true : enable
options	No	options object	Session printer options.

Table 4-1812 options

Parameter	Mandatory	Type	Description
session_printer_customization_policy	No	String	Custom session printer policy. A maximum of 1,000 characters are allowed.

Table 4-1813 camera_redirection

Parameter	Mandatory	Type	Description
video_compression_enable	No	Boolean	Whether to enable camera redirection. Options: false : disable; true : enable

Parameter	Mandatory	Type	Description
options	No	options object	Camera redirection options.

Table 4-1814 options

Parameter	Mandatory	Type	Description
camera_frame_rate	No	Integer	Camera frame rate (FPS). The value ranges from 1 to 30. Default: 15
camera_max_width	No	Integer	Camera maximum width (pixel). The value ranges from 1 to 9999. Default: 3000
camera_max_height	No	Integer	Camera maximum height (pixel). The value ranges from 1 to 9999. Default: 3000
camera_compression_method	No	String	Camera data compression method. The value is H.264 .

Table 4-1815 hid_redirection

Parameter	Mandatory	Type	Description
hid_redirection_enable	No	Boolean	Whether to enable HID redirection. Options: false : disable; true : enable
options	No	options object	HID options.

Table 4-1816 options

Parameter	Mandatory	Type	Description
hid_redirection_customization_policy	No	String	Custom HID redirection policy.

Table 4-1817 usb_device_common

Parameter	Mandatory	Type	Description
pcsc_smart_card_enable	No	String	Whether to enable PC/SC smartcard redirection. Options: Enable: enabled Closed: closed Disable: disabled
common_options	No	common_options object	Options for both USB devices and device smartcards.

Table 4-1818 common_options

Parameter	Mandatory	Type	Description
remove_smart_card_disconnect_enable	No	Boolean	Whether to enable smartcard removal to log out of user sessions. Options: false: disable; true: enable

Table 4-1819 serial_port_redirection

Parameter	Mandatory	Type	Description
serial_port_enable	No	Boolean	Whether to enable serial port redirection. Options: false: disable; true: enable
options	No	options object	Serial port redirection options.

Table 4-1820 options

Parameter	Mandatory	Type	Description
auto_connect_enable	No	Boolean	Whether to enable automatic connection to client serial ports. Options: false: disable; true: enable

Table 4-1821 parallel_port_redirection

Parameter	Mandatory	Type	Description
parallel_port_enable	No	Boolean	Whether to enable parallel port redirection. Options: false : disable; true : enable

Table 4-1822 driver_interface_redirection

Parameter	Mandatory	Type	Description
api_redir_driver_list	No	String	Custom drivers. Enter one or more driver file names or full paths of driver files installed on terminals. Separate file names or paths with semicolons (;). A maximum of 1,000 characters are allowed.

Table 4-1823 audio

Parameter	Mandatory	Type	Description
audio_redirection_enable	No	Boolean	Whether to enable audio redirection. Options: false : disable; true : enable
play_volume	No	String	Playback volume. If this parameter is not specified, the value is Do Not Set Volume . Volume setting. The value ranges from 10 to 100, and the interval between two adjacent values is 5 in ascending order, for example, 10, 15, 20, and 25.

Parameter	Mandatory	Type	Description
play_volume_ratio	No	String	Playback volume ratio. Options: If this parameter is not specified, the value is Do Not Set Volume Ratio . Low Middle: medium High
record_volume	No	String	Recording volume. If this parameter is not specified, the value is Do Not Set Volume . Volume setting. The value ranges from 10 to 100, and the interval between two adjacent values is 5 in ascending order, for example, 10, 15, 20, and 25.
record_volume_ratio	No	String	Recording volume ratio. Options: If this parameter is not specified, the value is Do Not Set Volume Ratio . Low Middle: medium High
audio_transmission_mode	No	String	Audio transmission mode. Options: Reliable Transmission Real Time Transmission
play_redirection_enable	No	Boolean	Whether to enable playback redirection. Options: false: disable; true: enable
play_classification	No	String	Playback scenario. Options: Lossless Speech Call Music Play Automatic Identification

Parameter	Mandatory	Type	Description
play_quality	No	String	Playback quality. Options: Low Middle: medium High
play_denoising	No	String	Playback denoising. Options: Disabled. Enabled: The value ranges from -100 to -5, and the interval between two adjacent values is 5 in ascending order, for example, -100, -95, -90, and -85.
play_agc	No	String	Playback AGC. Options: Disabled. Enabled: The value ranges from 4,000 to 32,000. From 10,000 on, the interval between two adjacent values is 1,000 in ascending order, for example, 4,000, 6,000, 8,000, 10,000, 11,000, 12,000 and 13,000.
play_crc	No	String	Playback CRC. Options: Disable CRC Enable CRC
play_device_mode	No	String	Playback device mode. Options: Play Device In Shared Mode Play Device In Exclusive Mode
play_delay_threshold	No	String	Playback delay threshold. The value ranges from 160 to 2,500. The values less than 400 are in ascending order with an interval of 40, and the values between 400 and 1,000 are in ascending order with an interval of 50. For example, the values can be as follows: 2,500, 2,000, 1,800, 1,500, 1,200, 1,000, 950, 900, 850.

Parameter	Mandatory	Type	Description
play_amplitude_threshold	No	String	Playback amplitude threshold. The values can be: 2,048, 4,096, 5,120, 6,144, 7,168, 8,192.
play_prefill_data	No	String	Playback prefill data. Options: Do Not Prefill Data; Prefill Data : The value ranges from 50 to 2,000. The values less than 250 are in an ascending order with an interval of 50, and the values between 250 and 500 are in an ascending order with an interval of 100. For example, the values can be as follows: 2,000, 1,500, 1,000, 500, 400, 300, 250.
record_redirection_enable	No	Boolean	Whether to enable recording redirection. Options: false : disable; true : enable
record_classification	No	String	Recording scenario. Options: Lossless Speech Call Music Record Automatic Identification
record_quality	No	String	Recording quality. Options: Low Middle : medium High
record_denoising	No	String	Recording denoising. Options: Disabled. Enabled: The value ranges from -100 to -5, and the interval between two adjacent values is 5 in ascending order, for example, -100, -95, -90, and -85.

Parameter	Mandatory	Type	Description
record_agc	No	String	Recording AGC. Options: Disabled. Enabled: The value ranges from 4,000 to 32,000. From 10,000 on, the interval between two adjacent values is 1,000 in ascending order, for example, 4,000, 6,000, 8,000, 10,000, 11,000, 12,000 and 13,000.
record_crc	No	String	Recording CRC. Options: Disable CRC Enable CRC
record_device_mode	No	String	Recording device mode. Options: Record Device In Shared Mode Record Device In Exclusive Mode
record_delay_threshold	No	String	Recording delay threshold. The value ranges from 160 to 2,500. The values less than 400 are in ascending order with an interval of 40, and the values between 400 and 1,000 are in ascending order with an interval of 50. For example, the values can be as follows: 2,500, 2,000, 1,800, 1,500, 1,200, 1,000, 950, 900, 850.
record_amplitude_threshold	No	String	Recording amplitude threshold. The values can be: 2,048, 4,096, 5,120, 6,144, 7,168, 8,192.

Table 4-1824 client

Parameter	Mandatory	Type	Description
automatic_reconnection_interval	No	Integer	Automatic reconnection interval, in second. The value ranges from 1 to 50. Default: 5

Parameter	Mandatory	Type	Description
session_persistence_time	No	Integer	Session persistence duration, in second. The value ranges from 0 to 180. Default: 180
autoclose_monitor_after_locked	No	Boolean	Automatic monitor shutdown after screen locking. Options: false : disable; true : enable
autoclose_monitor_options	No	autoclose_monitor_options object	Options for automatic monitor shutdown.
forbid_screen_capture	No	Boolean	Whether to enable screen capture prevention. Options: false : disable; true : enable
client_machine_join_domain	No	Boolean	Whether to verify the domain of a terminal. false : disable; true : enable
client_type	No	client_type object	Terminal type login control.

Table 4-1825 autoclose_monitor_options

Parameter	Mandatory	Type	Description
autoclose_monitor_wait_time	No	Integer	Time before automatic monitor shutdown, in second. The value ranges from 10 to 600,000. Default: 300

Table 4-1826 client_type

Parameter	Mandatory	Type	Description
client_type_limit	No	Boolean	Whether to enable terminal type login control. false : disable; true : enable
options	No	options object	Options for terminal type login control.

Table 4-1827 options

Parameter	Mandatory	Type	Description
sc_type_window	No	Boolean	Whether to select the Windows client. Options: false : not selected true : selected
sc_type_mac	No	Boolean	Whether to select the macOS client. Options: false : not selected true : selected
sc_type_android	No	Boolean	Whether to select the Android client. Options: false : not selected true : selected
sc_type_linux	No	Boolean	Whether to select the Linux client. Options: false : not selected true : selected
sc_type_h5	No	Boolean	Whether to select the web client. Options: false : not selected true : selected
sc_type_ios	No	Boolean	Whether to select the iOS client. Options: false : not selected true : selected
sc_type_harmonyos	No	Boolean	Whether to select the HarmonyOS client. Options: false : not selected true : selected
tc_type_all	No	Boolean	Whether to select all hardware terminals. Options: false : not selected true : selected

Table 4-1828 display

Parameter	Mandatory	Type	Description
display_level	No	String	Display level. Options: LEVEL 1 LEVEL 2 LEVEL 3 LEVEL 4 (default/ recommended) LEVEL 5
options	No	options object	Display level options.
rendering_acceleration_enable	No	Boolean	Whether to enable rendering acceleration. Options: false : disable; true : enable
rendering_acceleration_options	No	rendering_acceleration_options object	Rendering acceleration options.
adaptive_bitrate_control_enable	No	Boolean	Whether to enable adaptive bitrate. Options: false : disable; true : enable
adaptive_bitrate_control_options	No	adaptive_bitrate_control_options object	Adaptive bitrate options.
video_card_memory_size	No	Integer	GPU card cache (MB). The value ranges from 0 to 64. Default: 64
configuration_1_enable	No	Boolean	Whether to enable configuration item 1. Options: false : disable; true : enable
driver_delegation_mode_enable	No	Boolean	Whether to enable driver delegation. Options: false : disable; true : enable
driver_delegation_latency	No	Integer	Driver delegation latency (x 30 ms). The value ranges from 1 to 100. Default: 80

Parameter	Mandatory	Type	Description
video_latency	No	Integer	Driver delegation video latency (x 30 ms). The value ranges from 1 to 100. Default: 80
change_resolution_vm	No	Boolean	Whether to enable resolution change. Options: false : disable; true : enable
application_recognition	No	String	Application recognition. A maximum of 1,024 characters are allowed.
duplicate_display_enable	No	Boolean	Duplicate display. Options: false : disable; true : enable
default_mapping_order	No	String	Default screen mapping sequence. Default: 1, 2, 3, 4
duplicate_display_mode	No	String	Duplicate display mode. Options: One-to-One : Only one channel is supported. One-to-Many : Multiple channels are supported.

Table 4-1829 options

Parameter	Mandatory	Type	Description
display_bandwidth	No	Integer	Bandwidth (kbit/s). The value ranges from 256 to 25,000. Default: 20,000
frame_rate	No	Integer	Frame rate (FPS). The value ranges from 1 to 60. Default: 25
video_frame_rate	No	Integer	Video frame rate (FPS). The value ranges from 1 to 60. Default: 30
min_image_cache	No	Integer	Minimum capacity for image cache (MB). The value ranges from 0 to 300. Default: 200

Parameter	Mandatory	Type	Description
smoothing_factor	No	Integer	Lossy compression recognition threshold. The value ranges from 0 to 255. Default: 60
lossless_compression_mode	No	String	Lossless compression. Options: Basic Compression Deep Compression
deep_compression_options	No	deep_compression_options object	Deep compression options.
lossy_compression_quality	No	Integer	Lossy compression quality. The value ranges from 20 to 100. Default: 85
color_enhancement_enable	No	Boolean	Whether to enable color enhancement for office work. Options: false : disable; true : enable
quality_bandwidth_first	No	String	Quality/Bandwidth first. Options: Quality First Bandwidth First
video_bit_rate_options	No	video_bit_rate_options object	Video bitrate options.
peak_video_bit_rate	No	Integer	Peak video bitrate (kbit/s). The value ranges from 256 to 100,000. Default: 18,000
video_quality_options	No	video_quality_options object	Video quality options.
gop_size	No	Integer	GOP size. The value ranges from 0 to 65535. Default: 100

Parameter	Mandatory	Type	Description
encoding_preset	No	String	Encoding preset. Options: Preset 1 Preset 2 Preset 3 Preset 4 Preset 5 Preset 6 Preset 7

Table 4-1830 deep_compression_options

Parameter	Mandatory	Type	Description
deep_compression_level	No	String	Deep compression level. Options: Compression grade 0 Compression grade 1 Compression grade 2 Compression grade 3 Compression grade 4 Compression grade 5 Compression grade 6 Compression grade 7 Compression grade 8 Compression grade 9

Table 4-1831 video_bit_rate_options

Parameter	Mandatory	Type	Description
average_video_bit_rate	No	Integer	Average video bitrate (kbit/s). The value ranges from 256 to 100,000. Default: 18,000

Table 4-1832 video_quality_options

Parameter	Mandatory	Type	Description
average_video_quality	No	Integer	Average video quality. The value ranges from 5 to 59. Default: 15
lowest_video_quality	No	Integer	Lowest video quality. The value ranges from 5 to 69. Default: 25
highest_video_quality	No	Integer	Highest video quality. The value ranges from 1 to 59. Default: 7

Table 4-1833 rendering_acceleration_options

Parameter	Mandatory	Type	Description
video_acceleration_enhancement_enable	No	Boolean	Whether to enable video acceleration enhancement. Options: false : disable; true : enable
video_optimization_enable	No	Boolean	Whether to enable video scene optimization. Options: false : disable; true : enable
gpu_color_optimization_enable	No	Boolean	Whether to enable GPU color optimization. Options: false : disable; true : enable
video_recognition_threshold	No	Integer	Video recognition threshold. The value ranges from 0 to 500. Default: 10
frame_rate_statistical_length	No	Integer	Frame rate statistical length. The value ranges from 2 to 100. Default: 4
image_quality_threshold	No	Integer	Image quality threshold. The value ranges from 0 to 100. Default: 0
refresh_frequency_threshold	No	Integer	Refresh frequency threshold. The value ranges from 1 to 100. Default: 3

Parameter	Mandatory	Type	Description
exiting_video_area_threshold	No	Integer	Threshold of exiting the video area. The value ranges from 0 to 100. Default: 8
min_video_width	No	Integer	Minimum video width. The value ranges from 0 to 1,280. Default: 191
min_video_length	No	Integer	Minimum video height. The value ranges from 0 to 1,280. Default: 191
single_frame_natural_percentage	No	String	Threshold of the single-frame natural image block percentage. The value ranges from 0.000001 to 1. Default: 0.3
cyclical_natural_images_number	No	Integer	Threshold of cyclical natural image quantity percentage. The value ranges from 0 to 100. Default: 2
non_natural_image_percentage	No	String	Threshold of the non-natural image area percentage. The value ranges from 0.000001 to 1. Default: 0.85
non_natural_images_number	No	Integer	Threshold of non-natural image quantity percentage. The value ranges from 0 to 100. Default: 25

Table 4-1834 adaptive_bitrate_control_options

Parameter	Mandatory	Type	Description
peak_bandwidth_suppression_enable	No	Boolean	Whether to enable peak bandwidth suppression. Options: false : disable; true : enable
expected_average_network_latency	No	Integer	Expected average network latency, in millisecond. The value ranges from 1 to 2,000. Default: 160
network_latency_threshold1	No	Integer	Network latency threshold 1 (ms). The value ranges from 1 to 2,000. Default: 160

Parameter	Mandatory	Type	Description
network_latency_threshold2	No	Integer	Network latency threshold 2 (ms). The value ranges from 1 to 2,000. Default: 300
min_dynamic_frame_rate	No	Integer	Minimum dynamic frame rate (FPS). The value ranges from 1 to 60. Default: 17
min_dynamic_frame_rate_lv1	No	Integer	Minimum dynamic frame rate level 1 (FPS). The value ranges from 1 to 60. Default: 17
min_dynamic_frame_rate_lv2	No	Integer	Minimum dynamic frame rate level 2 (FPS). The value ranges from 1 to 60. Default: 10
rtt_threshold	No	Integer	Frame rate control parameter 1. The value ranges from 0 to 1,000. Default: 20
min_add_framerate	No	Integer	Frame rate control parameter 2. The value ranges from 0 to 120. Default: 8
max_add_framerate	No	Integer	Frame rate control parameter 3. The value ranges from 0 to 120. Default: 20
sub_framerate	No	Integer	Frame rate control parameter 4. The value ranges from 0 to 120. Default: 25
adaptive_bandwidth_lower_limit	No	Integer	Adaptive bandwidth lower limit, in kbit/s. The value ranges from 100 to 20,000. Default: 500
adaptive_compression_quality_lower_limit	No	Integer	Lower limit of adaptive lossy compression quality. The value ranges from 1 to 100. Default: 60
adaptive_compression_quality_upper_limit	No	Integer	Upper limit of adaptive lossy compression quality. The value ranges from 1 to 100. Default: 85
adaptive_compression_quality_increase_limit	No	Integer	Increase limit of adaptive lossy compression quality. The value ranges from 1 to 100. Default: 5

Parameter	Mandatory	Type	Description
adaptive_compression_quality_decrease_limit	No	Integer	Decrease limit of adaptive lossy compression quality. The value ranges from 1 to 100. Default: 10
adaptive_average_quality_lower_limit	No	Integer	Lower limit of adaptive average video quality. The value ranges from 5 to 50. Default: 15
adaptive_average_quality_upper_limit	No	Integer	Upper limit of adaptive average video quality. The value ranges from 5 to 50. Default: 25
adaptive_average_quality_increase_limit	No	Integer	Increase limit of adaptive average video quality. The value ranges from 1 to 50. Default: 3
adaptive_average_quality_decrease_limit	No	Integer	Decrease limit of adaptive average video quality. The value ranges from 1 to 50. Default: 1
adaptive_minimum_quality_lower_limit	No	Integer	Lower limit of adaptive minimum video quality. The value ranges from 5 to 69. Default: 25
adaptive_minimum_quality_upper_limit	No	Integer	Upper limit of adaptive minimum video quality. The value ranges from 5 to 69. Default: 30
adaptive_minimum_quality_increase_limit	No	Integer	Increase limit of adaptive minimum video quality. The value ranges from 1 to 50. Default: 3
adaptive_minimum_quality_decrease_limit	No	Integer	Decrease limit of adaptive minimum video quality. The value ranges from 1 to 50. Default: 1

Table 4-1835 file_and_clipboard

Parameter	Mandatory	Type	Description
file_redirection	No	file_redirection object	File redirection.

Parameter	Mandatory	Type	Description
clip_length_limit_flag_c2s	No	Boolean	Clipboard length.
clip_length_limit_c2s	No	Integer	Client clipboard length.
clip_length_limit_flag_s2c	No	Boolean	Clipboard length.
clip_length_limit_s2c	No	Integer	Client clipboard length.
fd_mobile_client_redirection_enable	No	Boolean	Whether to enable mobile client file redirection. Options: false : disable; true : enable
clipboard_redirection	No	String	Clipboard redirection. Options: DISABLED (default) SERVER_TO_CLIENT_ENABLED (from the server to the client) CLIENT_TO_SERVER_ENABLED (from the client to the server) TWO_WAY_ENABLED (two-way)
clipboard_redirection_options	No	clipboard_redirection_options object	Clipboard redirection options.

Table 4-1836 file_redirection

Parameter	Mandatory	Type	Description
redirection_mode	No	String	File redirection. Options: DISABLED (default) READ_ONLY READ_AND_WRITE
options	No	options object	File redirection options.

Parameter	Mandatory	Type	Description
vm_send_file_client	No	Boolean	Whether to enable the function of sending files from the VM to the client. Options: false : disable; true : enable
redirection_send_file_options	No	redirection_send_file_options object	Options for both redirection and file sending.

Table 4-1837 options

Parameter	Mandatory	Type	Description
fluid_control_switch_enable	No	Boolean	Whether to enable rate limit. Options: false : disable; true : enable
fluid_control_options	No	fluid_control_options object	Rate limit options.
compression_switch_enable	No	Boolean	Whether to enable compression. Options: false : disable; true : enable
compression_switch_options	No	compression_switch_options object	Compression options.
linux_file_size_supported_enable	No	Boolean	Whether to enable the function of setting the file size in Linux. Options: false : disable; true : enable
linux_file_size_supported_options	No	linux_file_size_supported_options object	Options for setting the file size in Linux.
linux_root_mount_switch_enable	No	Boolean	Whether to enable root directory mount in Linux. Options: false : disable; true : enable

Parameter	Mandatory	Type	Description
linux_root_dir_list	No	String	Mount path of the Linux root directory. Default: \var\log
linux_file_mount_path	No	String	Mount path of the Linux file system. Default: \media \Volumes\swdb\mnt\home \storage\tmp\run\media
linux_fixed_drive_file_system_format	No	String	Linux fixed driver file system format.
linux_removable_drive_file_system_format	No	String	Linux removable driver file system format. Default: vfat ntfs msdos fuseblk sdcardfs exfat fuse.fdir lifs
linux_cdrom_drive_file_system_format	No	String	Linux CD-ROM driver file system format. Default: cd9660 iso9660 udf
linux_network_drive_file_system_format	No	String	Linux network driver file system format. Default: smbfs afpfs cifs
path_separator	No	String	Path separator. Default:
fixed_drive_enable	No	Boolean	Whether to enable fixed drivers (such as local disks). Options: false : disable; true : enable
removable_drive_enable	No	Boolean	Whether to enable removable drivers (such as USB flash drives). Options: false : disable; true : enable
cd_rom_drive_enable	No	Boolean	Whether to enable CD-ROM drivers. Options: false : disable; true : enable
network_drive_enable	No	Boolean	Whether to enable network drivers. Options: false : disable; true : enable

Table 4-1838 fluid_control_options

Parameter	Mandatory	Type	Description
good_network_latency	No	Integer	Good network latency threshold (ms). The value ranges from 1 to 1,000. Default: 30
normal_network_latency	No	Integer	Normal network latency threshold (ms). The value ranges from 1 to 1,000. Default: 70
poor_network_latency	No	Integer	Poor network latency threshold (ms). The value ranges from 1 to 1,000. Default: 100
reducing_step	No	Integer	Reducing step (KB). The value ranges from 1 to 100. Default: 20
slow_increasing_step	No	Integer	Slow increasing step (KB). The value ranges from 1 to 100. Default: 10
quick_increasing_step	No	Integer	Quick increasing step (KB). The value ranges from 1 to 100. Default: 20
start_speed	No	Integer	Initial transmission speed (KB/s). The value ranges from 1 to 10,240. Default: 1,024
test_block_size	No	Integer	Speed test block size (KB). The value ranges from 64 to 1,024. Default: 64
test_time_gap	No	Integer	Speed test block interval (ms). The value ranges from 1,000 to 100,000. Default: 10,000

Table 4-1839 compression_switch_options

Parameter	Mandatory	Type	Description
compression_threshold	No	Integer	Compression threshold (byte). The value ranges from 0 to 10,240. Default: 512
minimum_compression_rate	No	Integer	Minimum compression rate. The value ranges from 0 to 1,000. Default: 900

Table 4-1840 linux_file_size_supported_options

Parameter	Mandatory	Type	Description
linux_file_size_supported_threshold	No	Integer	File size threshold in Linux (byte). The value ranges from 0 to 4,096. Default: 100

Table 4-1841 redirection_send_file_options

Parameter	Mandatory	Type	Description
read_write_speed	No	Integer	Read/Write speed (kbit/s). The value ranges from 0 to 2147483647. Default: 0

Table 4-1842 clipboard_redirection_options

Parameter	Mandatory	Type	Description
rich_text_redirection_enable	No	Boolean	Whether to enable clipboard rich text redirection. Options: false : disable; true : enable
clipboard_file_redirection_enable	No	Boolean	Whether to enable clipboard file redirection. Options: false : disable; true : enable

Table 4-1843 Session

Parameter	Mandatory	Type	Description
vdi	No	Vdi object	VDI.
self_help_console	No	Boolean	Whether to enable preemption login to the self-help console. Options: false : disable; true : enable
disconnect_on_lock_flag	No	Boolean	Whether to disconnect after the screen is locked.
auto_lock_start_time	No	String	Start time when the lock takes effect. The format is hh:mm:ss.
auto_lock_end_time	No	String	Start time when the lock takes effect. The format is hh:mm:ss.

Table 4-1844 Vdi

Parameter	Mandatory	Type	Description
auto_lock_enable	No	Boolean	Whether to enable automatic screen locking. Options: false : disable; true : enable
auto_lock_options	No	AutoLockOptions object	Options available after automatic screen locking is enabled.
disconnect_logout_enable	No	Integer	Whether to enable automatic logout upon disconnection. Options: 0 : disable; 1 : enable
disconnect_logout_options	No	DisconnectLogoutOptions object	Options available after automatic logout upon disconnection is enabled.
disconnect_hibernate_enable	No	Boolean	Whether to enable automatic logout upon disconnection. Options: 0 : disable; 1 : enable
disconnect_hibernate_options	No	disconnect_hibernate_options object	Options for hibernation upon disconnection.
no_operation_hibernate_enable	No	Boolean	Whether to enable automatic logout upon disconnection. Options: 0 : disable; 1 : enable
no_operation_hibernate_options	No	no_operation_hibernate_options object	Do not select the hibernation option.

Table 4-1845 AutoLockOptions

Parameter	Mandatory	Type	Description
auto_lock_minutes	No	Integer	Time before screen locking, in minute. The value ranges from 3 to 86,400. Default: 10

Parameter	Mandatory	Type	Description
auto_disconnect	No	String	Automatic disconnection or logout. Options: AUTO_DISCONNECT (automatic disconnection); AUTO_LOGOUT (automatic logout); DISABLED (disabled); AUTO_RESTART (default, automatic restart); AUTO_STOP (automatic shutdown); HIBERNATE (hibernation)
options	No	AutoDisconnectOrLogoutControlOptions object	Options available after automatic disconnection or automatic logout is enabled.

Table 4-1846 AutoDisconnectOrLogoutControlOptions

Parameter	Mandatory	Type	Description
auto_disconnect_minutes	No	Integer	Time before disconnection or logout, in minute. The value ranges from 1 to 86,400. Default: 1,440

Table 4-1847 DisconnectLogoutOptions

Parameter	Mandatory	Type	Description
disconnect_logout_minutes	No	Integer	Time before automatic logout upon disconnection, in minute. The value ranges from 3 to 86,400. Default: 10

Table 4-1848 disconnect_hibernate_options

Parameter	Mandatory	Type	Description
disconnect_hibernate_minutes	No	Integer	Hibernation duration upon disconnection.

Table 4-1849 no_operation_hibernate_options

Parameter	Mandatory	Type	Description
no_operation_hibernate_minutes	No	Integer	Policy group ID.

Table 4-1850 VirtualChannel

Parameter	Mandatory	Type	Description
virtual_channel_control_enable	No	Boolean	Whether to enable the virtual channel policy. Options: false : disable; true : enable
options	No	VirtualChannelOptions object	Virtual channel policy options.

Table 4-1851 VirtualChannelOptions

Parameter	Mandatory	Type	Description
custom_virtual_channel_name	No	String	Custom registered virtual channel name. Currently, only ASCII characters are supported. The value can contain a maximum of 65,535 characters.
virtual_channel_plugin_details	No	String	Virtual channel download details (Base64-encoded). Before encryption, only ASCII characters are supported. The value can contain a maximum of 65,535 characters.
third_party_plugin_name	No	String	Third-party plug-in name. The value can contain a maximum of 65,535 characters.

Table 4-1852 Watermark

Parameter	Mandatory	Type	Description
watermark_enable	No	Boolean	Indicates whether to enable the watermark policy. Options: false : disable; true : enable

Parameter	Mandatory	Type	Description
options	No	WatermarkOptions object	Watermark policy options.

Table 4-1853 WatermarkOptions

Parameter	Mandatory	Type	Description
show_style	No	String	Display mode. Options: FIXED (fixed position); RANDOM (random motion)
color	No	String	Color. Format: RRGGBB . Default: 2a2a2a
font_size	No	Integer	Font size. The value ranges from 1 to 200. Default: 30
opacity_setting	No	String	Opacity (%). The value ranges from 0 to 100. Default: 12.5
content_item_count	No	Integer	Number of watermarks. The value ranges from 1 to 30. Default: 1
display_format	No	String	Watermark content display format.
lean	No	Integer	Tilt. The value ranges from -90 to 90. Default: -45
content_customized	No	String	Custom content, which cannot contain special characters such as >.
content_color	No	String	Content color.
watermark_security_access	No	Boolean	Whether to enable the security-first mode.
user_extend_info_switch	No	Boolean	Whether to enable extended user information. false : disable; true : enable
user_extend_info	No	String	Extended user information.

Table 4-1854 keyboard_mouse

Parameter	Mandatory	Type	Description
mouse_feedback	No	String	VM mouse device feedback. Options: SELFADAPTION : adaptive mouse device feedback FORCE : forcible mouse device feedback CLOSE : no mouse device feedback
mouse_simulation_mode	No	String	VM mouse device simulation mode. Options: ABSOLUTE_POSITION : absolute position simulation RELATIVE_POSITION : relative position simulation
external_cursor_feedback	No	Boolean	Whether to enable VM external cursor feedback. Options: false : disable; true : enable
selfhelp_console_enable	No	Boolean	Whether to enable preemption login to the self-help console. Options: false : disable; true : enable
client_mouse_send_interval	No	Integer	Interval for sending mouse device operations on the client. The value ranges from 1 to 30. Default: 30
windows_client_keyboard_mode	No	String	Windows client keyboard mode. Options: GLOBAL : global mode for Windows client keyboards (default) WINDOW : windowed mode for for Windows client keyboards

Parameter	Mandatory	Type	Description
windows_client_mouse_mode	No	String	Windows client mouse device mode. Options: GLOBAL : global mode for Windows client mouse devices WINDOW : windowed mode for Windows client mouse devices (default)
linux_client_keyboard_mode	No	String	Linux client keyboard mode. Options: EVENT : event mode for Linux client keyboards (default) GRAPH : graphics mode for Linux client keyboards
linux_client_mouse_mode	No	String	Linux client mouse device mode. Options: EVENT : event mode for Linux client mouse devices (default) GRAPH : graphics mode for Linux client mouse devices
special_keyboard	No	Boolean	Special keyboard. Options: false : disable; true : enable
joy_stick_flag	No	Boolean	Joystick. Options: false : disable; true : enable

Table 4-1855 seamless

Parameter	Mandatory	Type	Description
seamless_enable	No	Boolean	Whether to enable audio/video bypass. Options: false : disable; true : enable
options	No	options object	General audio/video settings.

Table 4-1856 options

Parameter	Mandatory	Type	Description
seamless_apply_path	No	String	Software path. A maximum of 1,000 characters are allowed.

Table 4-1857 personalized_data_mgmt

Parameter	Mandatory	Type	Description
personalized_data_mgmt_path	No	String	Personalized data management path.
user_data_roaming_enable	No	Boolean	User data roaming.
user_data_roaming_options	No	user_data_roaming_options object	User data roaming options.
user_folder_redirection_enable	No	Boolean	Enables user folder redirection.
user_folder_redirection_options	No	user_folder_redirection_options object	User folder redirection options.
logoff_delete_user_configuration	No	Boolean	Enables user folder redirection.
network_drive_mapping_enable	No	Boolean	Enables user folder redirection.
network_drive_mapping_options	No	network_drive_mapping_options object	Network driver mapping options.

Table 4-1858 user_data_roaming_options

Parameter	Mandatory	Type	Description
profile_streaming_enable	No	Boolean	Whether to enable profile streaming.
roamed_files_local_path	No	String	Local path of roamed files.

Parameter	Mandatory	Type	Description
exclude_folders_path	No	String	Path of an excluded folder.
roaming_registry_method	No	String	Path of an excluded folder.
roaming_registry_path	No	String	Path of roaming registration.

Table 4-1859 user_folder_redirection_options

Parameter	Mandatory	Type	Description
restore_local_directories_enable	No	Boolean	Enables the restoration of local directories.
appData_roaming_enable	No	Boolean	Enables application data roaming.
redirec_desktop	No	Boolean	Desktop redirection.
redirec_start_menu	No	Boolean	Start menu.
redirec_documents	No	Boolean	Document.
redirec_pictures	No	Boolean	Photo.
redirec_music	No	Boolean	Music.
redirec_videos	No	Boolean	Audio recording.
redirec_favorites	No	Boolean	Favorite.
redirec_contacts	No	Boolean	Audio recording.
redirec_downloads	No	Boolean	Download.
redirec_links	No	Boolean	Link
redirec_searches	No	Boolean	Search.
redirec_saved_games	No	Boolean	Game storage.

Table 4-1860 network_drive_mapping_options

Parameter	Mandatory	Type	Description
network_drive_mapping_path	No	String	Network drive mapping path.
drive_letter	No	String	Path of an excluded folder.

Table 4-1861 custom

Parameter	Mandatory	Type	Description
custom_configuration1_enable	No	Boolean	Whether to enable custom configuration.
options	No	options object	General audio/video settings.

Table 4-1862 options

Parameter	Mandatory	Type	Description
custom_configuration1_rule	No	String	Custom configuration rule.

Table 4-1863 record_audit

Parameter	Mandatory	Type	Description
enable	No	Boolean	Whether to enable screen recording audit. Options: false : disable; true : enable
rules	No	rules object	Screen recording rules.
storage_type	No	String	Storage type. Options: OBS : OBS bucket SFTP : SFTP interconnection
obs_bucket_source	No	String	OBS bucket source. Options: AUTO_CREATE : automatically created CREATED : created

Parameter	Mandatory	Type	Description
obs_bucket_name	No	String	OBS bucket name
retention_duration	No	Integer	Retention period of a screen recording file, in days. The value ranges from 1 to 180. 0 indicates that the file is retained permanently.

Table 4-1864 rules

Parameter	Mandatory	Type	Description
rule	No	RecordAuditRule object	Rule.

Table 4-1865 RecordAuditRule

Parameter	Mandatory	Type	Description
record_type	No	String	Recording type. Options: whole : continuous screen recording interval : interval screen recording userOperations : screen recording by users sessionMonitoring : screen recording of the session lifecycle
interval_record_start_time	No	String	Start time of interval-based screen recording. This parameter is valid only when interval is used. The format is hh:mm.
interval_record_end_time	No	String	End time of interval-based screen recording. This parameter is valid only when interval is used. The format is hh:mm.

Parameter	Mandatory	Type	Description
op_type	No	String	Operation triggering type. This parameter is valid only when userOperations is used. Options: input : Screen recording is started once the user enters content. filecopy : Screen recording is started once the user copies a file.
audio_record	No	Boolean	Whether to enable audio recording. Options: false : disable; true : enable
fps	No	String	Recording frame rate. The value can be 2, 5, 10, or 15 .
duration	No	String	Duration of a single video recording file, in minutes. The value can be 10, 20, 30, or 60 .
resolution	No	String	Resolution settings. The value can be 720P, 1080P, or original .
event_enable	No	Boolean	Whether to enable key event audit. Options: false : disabled true : enabled
file_suffix	No	String	File name extension. Use vertical bars () to separate multiple file name extensions.
regit_paths	No	String	Registry path. Use vertical bars () to separate multiple registry paths.
app_filter_type	No	String	Application filtering type. The value can be black (blacklist) or white (whitelist).
app_white_list	No	String	Enables or disables the application whitelist. If it is enabled, only the whitelisted applications are monitored.

Parameter	Mandatory	Type	Description
app_black_list	No	String	Enables or disables the application blacklist. Blacklisted applications will be ignored.

Response Parameters

Status code: 200

Table 4-1866 Response body parameters

Parameter	Type	Description
policies	Policies object	Policy class.

Table 4-1867 Policies

Parameter	Type	Description
peripherals	peripherals object	Peripheral.
audio	audio object	Audio.
client	client object	Client.
display	display object	Display.
file_and_clipboard	file_and_clipboard object	Files and clipboards.
session	Session object	Sessions.
virtual_channel	VirtualChannel object	Virtual channels.
watermark	Watermark object	Watermarking.
keyboard_mouse	keyboard_mouse object	Keyboards and mouse devices.
seamless	seamless object	Audio/Video bypass.
personalized_data_mgmt	personalized_data_mgmt object	Personalized data management.
custom	custom object	Custom policy.
record_audit	record_audit object	Screen recording audit.

Table 4-1868 peripherals

Parameter	Type	Description
usb_custom_policy_debug	String	Device debugging policy.
usb_port_redirection	usb_port_redirection object	USB port redirection.
device_redirection	device_redirection object	Device redirection.
usb_device_commom	usb_device_common object	USB and device smartcard options.
serial_port_redirection	serial_port_redirection object	Serial port redirection.
parallel_port_redirection	parallel_port_redirection object	Parallel port redirection.
driver_interface_redirection	driver_interface_redirection object	Driver interface redirection.

Table 4-1869 usb_port_redirection

Parameter	Type	Description
usb_enable	Boolean	Whether to enable USB port redirection. Options: false : disable; true : enable
options	options object	USB port redirection options.

Table 4-1870 options

Parameter	Type	Description
usb_image_enable	Boolean	Whether to enable image devices, such as scanners. Options: false : disable; true : enable

Parameter	Type	Description
usb_video_enable	Boolean	Whether to enable video devices, such as cameras. Options: false : disable; true : enable
usb_printer_enable	Boolean	Whether to enable print devices, such as printers. Options: false : disable; true : enable
usb_storage_enable	Boolean	Whether to enable storage devices, such as USB flash drives. Options: false : disable; true : enable
wireless_devices_enable	Boolean	Whether to enable wireless devices, such as Bluetooth. Options: false : disable; true : enable
network_devices_enable	Boolean	Whether to enable network devices, such as wireless NICs. Options: false : disable; true : enable
usb_smart_card_enable	Boolean	Whether to enable smartcard devices, such as USB keys. Options: false : disable; true : enable
other_usb_devices_enable	Boolean	Whether to enable the redirection of other USB devices. Options: false : disable; true : enable
usb_redirection_customization_policy	String	Custom policy for USB port redirection. The value contains a maximum of 18,000 characters.
usb_redirection_mode	String	USB redirection mode. Options: Classical mode Common mode

Table 4-1871 device_redirection

Parameter	Type	Description
printer_redirection	printer_redirection object	Printer redirection.
session_printer	session_printer object	Session printer.
camera_redirection	camera_redirection object	Camera redirection.
twain_redirection_enable	Boolean	Whether to enable TWAIN device redirection. Options: false : disable; true : enable
image_compression_level	String	Image compression level. Options: none low (highest speed) medium (medium speed) high (lowest speed) lossless low-loss medium-loss high-loss
hid_redirection	hid_redirection object	Human interface device (HID) redirection.

Table 4-1872 printer_redirection

Parameter	Type	Description
printer_enable	Boolean	Whether to enable printer redirection. Options: false : disable; true : enable
options	options object	Printer redirection options.

Table 4-1873 options

Parameter	Type	Description
mobile_printer_enable	Boolean	Mobile client printer redirection. Options: false : disable; true : enable
print_data_compression_mode	Boolean	Whether to enable data compression. Options: false : disable; true : enable
sync_client_default_printer_enable	Boolean	Whether to enable default client printer synchronization. Options: false : disable; true : enable
universal_printer_driver	String	Universal printer driver. By default, choose Universal Printing PS for Linux clients and HDP XPSDrv Driver for Windows clients. Options: HDP XPSDrv Driver ; Universal Printing PCL 5 Universal Printing PCL 6 Universal Printing PS

Table 4-1874 session_printer

Parameter	Type	Description
session_printer_enable	Boolean	Whether to enable session printers. Options: false : disable; true : enable
options	options object	Session printer options.

Table 4-1875 options

Parameter	Type	Description
session_printer_customization_policy	String	Custom session printer policy. A maximum of 1,000 characters are allowed.

Table 4-1876 camera_redirection

Parameter	Type	Description
video_compress_enable	Boolean	Whether to enable camera redirection. Options: false : disable; true : enable
options	options object	Camera redirection options.

Table 4-1877 options

Parameter	Type	Description
camera_frame_rate	Integer	Camera frame rate (FPS). The value ranges from 1 to 30. Default: 15
camera_max_width	Integer	Camera maximum width (pixel). The value ranges from 1 to 9999. Default: 3000
camera_max_height	Integer	Camera maximum height (pixel). The value ranges from 1 to 9999. Default: 3000
camera_compression_method	String	Camera data compression method. The value is H.264 .

Table 4-1878 hid_redirection

Parameter	Type	Description
hid_redirection_enable	Boolean	Whether to enable HID redirection. Options: false : disable; true : enable
options	options object	HID options.

Table 4-1879 options

Parameter	Type	Description
hid_redirection_customization_policy	String	Custom HID redirection policy.

Table 4-1880 usb_device_common

Parameter	Type	Description
pcsc_smart_card_enable	String	Whether to enable PC/SC smartcard redirection. Options: Enable: enabled Closed: closed Disable: disabled
common_options	common_options object	Options for both USB devices and device smartcards.

Table 4-1881 common_options

Parameter	Type	Description
remove_smart_card_disconnect_enable	Boolean	Whether to enable smartcard removal to log out of user sessions. Options: false: disable; true: enable

Table 4-1882 serial_port_redirection

Parameter	Type	Description
serial_port_enable	Boolean	Whether to enable serial port redirection. Options: false: disable; true: enable
options	options object	Serial port redirection options.

Table 4-1883 options

Parameter	Type	Description
auto_connect_enable	Boolean	Whether to enable automatic connection to client serial ports. Options: false: disable; true: enable

Table 4-1884 parallel_port_redirection

Parameter	Type	Description
parallel_port_enable	Boolean	Whether to enable parallel port redirection. Options: false : disable; true : enable

Table 4-1885 driver_interface_redirection

Parameter	Type	Description
api_redir_driver_list	String	Custom drivers. Enter one or more driver file names or full paths of driver files installed on terminals. Separate file names or paths with semicolons (;). A maximum of 1,000 characters are allowed.

Table 4-1886 audio

Parameter	Type	Description
audio_redirection_enable	Boolean	Whether to enable audio redirection. Options: false : disable; true : enable
play_volume	String	Playback volume. If this parameter is not specified, the value is Do Not Set Volume . Volume setting. The value ranges from 10 to 100, and the interval between two adjacent values is 5 in ascending order, for example, 10, 15, 20, and 25.
play_volume_ratio	String	Playback volume ratio. Options: If this parameter is not specified, the value is Do Not Set Volume Ratio . Low Middle : medium High

Parameter	Type	Description
record_volume	String	Recording volume. If this parameter is not specified, the value is Do Not Set Volume . Volume setting. The value ranges from 10 to 100, and the interval between two adjacent values is 5 in ascending order, for example, 10, 15, 20, and 25.
record_volume_ratio	String	Recording volume ratio. Options: If this parameter is not specified, the value is Do Not Set Volume Ratio . Low Middle: medium High
audio_transmission_mode	String	Audio transmission mode. Options: Reliable Transmission Real Time Transmission
play_redirection_enable	Boolean	Whether to enable playback redirection. Options: false: disable; true: enable
play_classification	String	Playback scenario. Options: Lossless Speech Call Music Play Automatic Identification
play_quality	String	Playback quality. Options: Low Middle: medium High
play_denoising	String	Playback denoising. Options: Disabled. Enabled: The value ranges from -100 to -5, and the interval between two adjacent values is 5 in ascending order, for example, -100, -95, -90, and -85.

Parameter	Type	Description
play_agc	String	Playback AGC. Options: Disabled. Enabled: The value ranges from 4,000 to 32,000. From 10,000 on, the interval between two adjacent values is 1,000 in ascending order, for example, 4,000, 6,000, 8,000, 10,000, 11,000, 12,000 and 13,000.
play_crc	String	Playback CRC. Options: Disable CRC Enable CRC
play_device_mode	String	Playback device mode. Options: Play Device In Shared Mode Play Device In Exclusive Mode
play_delay_threshold	String	Playback delay threshold. The value ranges from 160 to 2,500. The values less than 400 are in ascending order with an interval of 40, and the values between 400 and 1,000 are in ascending order with an interval of 50. For example, the values can be as follows: 2,500, 2,000, 1,800, 1,500, 1,200, 1,000, 950, 900, 850.
play_amplitude_threshold	String	Playback amplitude threshold. The values can be: 2,048, 4,096, 5,120, 6,144, 7,168, 8,192.
play_prefill_data	String	Playback prefill data. Options: Do Not Prefill Data ; Prefill Data : The value ranges from 50 to 2,000. The values less than 250 are in an ascending order with an interval of 50, and the values between 250 and 500 are in an ascending order with an interval of 100. For example, the values can be as follows: 2,000, 1,500, 1,000, 500, 400, 300, 250.
record_redirection_enable	Boolean	Whether to enable recording redirection. Options: false : disable; true : enable

Parameter	Type	Description
record_classification	String	Recording scenario. Options: Lossless Speech Call Music Record Automatic Identification
record_quality	String	Recording quality. Options: Low Middle : medium High
record_denoising	String	Recording denoising. Options: Disabled. Enabled: The value ranges from -100 to -5, and the interval between two adjacent values is 5 in ascending order, for example, -100, -95, -90, and -85.
record_agc	String	Recording AGC. Options: Disabled. Enabled: The value ranges from 4,000 to 32,000. From 10,000 on, the interval between two adjacent values is 1,000 in ascending order, for example, 4,000, 6,000, 8,000, 10,000, 11,000, 12,000 and 13,000.
record_crc	String	Recording CRC. Options: Disable CRC Enable CRC
record_device_mode	String	Recording device mode. Options: Record Device In Shared Mode Record Device In Exclusive Mode
record_delay_threshold	String	Recording delay threshold. The value ranges from 160 to 2,500. The values less than 400 are in ascending order with an interval of 40, and the values between 400 and 1,000 are in ascending order with an interval of 50. For example, the values can be as follows: 2,500, 2,000, 1,800, 1,500, 1,200, 1,000, 950, 900, 850.
record_amplitude_threshold	String	Recording amplitude threshold. The values can be: 2,048, 4,096, 5,120, 6,144, 7,168, 8,192.

Table 4-1887 client

Parameter	Type	Description
automatic_reconnection_interval	Integer	Automatic reconnection interval, in second. The value ranges from 1 to 50. Default: 5
session_persistence_time	Integer	Session persistence duration, in second. The value ranges from 0 to 180. Default: 180
autoclose_monitor_after_locked	Boolean	Automatic monitor shutdown after screen locking. Options: false : disable; true : enable
autoclose_monitor_options	autoclose_monitor_options object	Options for automatic monitor shutdown.
forbid_screen_capture	Boolean	Whether to enable screen capture prevention. Options: false : disable; true : enable
client_machine_join_domain	Boolean	Whether to verify the domain of a terminal. false : disable; true : enable
client_type	client_type object	Terminal type login control.

Table 4-1888 autoclose_monitor_options

Parameter	Type	Description
autoclose_monitor_wait_time	Integer	Time before automatic monitor shutdown, in second. The value ranges from 10 to 600,000. Default: 300

Table 4-1889 client_type

Parameter	Type	Description
client_type_limit	Boolean	Whether to enable terminal type login control. false : disable; true : enable

Parameter	Type	Description
options	options object	Options for terminal type login control.

Table 4-1890 options

Parameter	Type	Description
sc_type_window	Boolean	Whether to select the Windows client. Options: false : not selected true : selected
sc_type_mac	Boolean	Whether to select the macOS client. Options: false : not selected true : selected
sc_type_android	Boolean	Whether to select the Android client. Options: false : not selected true : selected
sc_type_linux	Boolean	Whether to select the Linux client. Options: false : not selected true : selected
sc_type_h5	Boolean	Whether to select the web client. Options: false : not selected true : selected
sc_type_ios	Boolean	Whether to select the iOS client. Options: false : not selected true : selected
sc_type_harmony_os	Boolean	Whether to select the HarmonyOS client. Options: false : not selected true : selected
tc_type_all	Boolean	Whether to select all hardware terminals. Options: false : not selected true : selected

Table 4-1891 display

Parameter	Type	Description
display_level	String	Display level. Options: LEVEL 1 LEVEL 2 LEVEL 3 LEVEL 4 (default/recommended) LEVEL 5
options	options object	Display level options.
rendering_acceleration_enable	Boolean	Whether to enable rendering acceleration. Options: false : disable; true : enable
rendering_acceleration_options	rendering_acceleration_options object	Rendering acceleration options.
adaptive_bitrate_control_enable	Boolean	Whether to enable adaptive bitrate. Options: false : disable; true : enable
adaptive_bitrate_control_options	adaptive_bitrate_control_options object	Adaptive bitrate options.
video_card_memory_size	Integer	GPU card cache (MB). The value ranges from 0 to 64. Default: 64
configuration1_enable	Boolean	Whether to enable configuration item 1. Options: false : disable; true : enable
driver_delegation_mode_enable	Boolean	Whether to enable driver delegation. Options: false : disable; true : enable
driver_delegation_latency	Integer	Driver delegation latency (x 30 ms). The value ranges from 1 to 100. Default: 80
video_latency	Integer	Driver delegation video latency (x 30 ms). The value ranges from 1 to 100. Default: 80

Parameter	Type	Description
change_resolution_vm	Boolean	Whether to enable resolution change. Options: false : disable; true : enable
application_recognition	String	Application recognition. A maximum of 1,024 characters are allowed.
duplicate_display_enable	Boolean	Duplicate display. Options: false : disable; true : enable
default_mapping_order	String	Default screen mapping sequence. Default: 1, 2, 3, 4
duplicate_display_mode	String	Duplicate display mode. Options: One-to-One : Only one channel is supported. One-to-Many : Multiple channels are supported.

Table 4-1892 options

Parameter	Type	Description
display_bandwidth	Integer	Bandwidth (kbit/s). The value ranges from 256 to 25,000. Default: 20,000
frame_rate	Integer	Frame rate (FPS). The value ranges from 1 to 60. Default: 25
video_frame_rate	Integer	Video frame rate (FPS). The value ranges from 1 to 60. Default: 30
min_image_cache	Integer	Minimum capacity for image cache (MB). The value ranges from 0 to 300. Default: 200
smoothing_factor	Integer	Lossy compression recognition threshold. The value ranges from 0 to 255. Default: 60
lossless_compression_mode	String	Lossless compression. Options: Basic Compression Deep Compression
deep_compression_options	deep_compression_options object	Deep compression options.

Parameter	Type	Description
lossy_compression_quality	Integer	Lossy compression quality. The value ranges from 20 to 100. Default: 85
color_enhancement_enable	Boolean	Whether to enable color enhancement for office work. Options: false : disable; true : enable
quality_bandwidth_first	String	Quality/Bandwidth first. Options: Quality First Bandwidth First
video_bit_rate_options	video_bit_rate_options object	Video bitrate options.
peak_video_bit_rate	Integer	Peak video bitrate (kbit/s). The value ranges from 256 to 100,000. Default: 18,000
video_quality_options	video_quality_options object	Video quality options.
gop_size	Integer	GOP size. The value ranges from 0 to 65535. Default: 100
encoding_preset	String	Encoding preset. Options: Preset 1 Preset 2 Preset 3 Preset 4 Preset 5 Preset 6 Preset 7

Table 4-1893 deep_compression_options

Parameter	Type	Description
deep_compression_level	String	Deep compression level. Options: Compression grade 0 Compression grade 1 Compression grade 2 Compression grade 3 Compression grade 4 Compression grade 5 Compression grade 6 Compression grade 7 Compression grade 8 Compression grade 9

Table 4-1894 video_bit_rate_options

Parameter	Type	Description
average_video_bit_rate	Integer	Average video bitrate (kbit/s). The value ranges from 256 to 100,000. Default: 18,000

Table 4-1895 video_quality_options

Parameter	Type	Description
average_video_quality	Integer	Average video quality. The value ranges from 5 to 59. Default: 15
lowest_video_quality	Integer	Lowest video quality. The value ranges from 5 to 69. Default: 25
highest_video_quality	Integer	Highest video quality. The value ranges from 1 to 59. Default: 7

Table 4-1896 rendering_acceleration_options

Parameter	Type	Description
video_acceleration_enhancement_enable	Boolean	Whether to enable video acceleration enhancement. Options: false : disable; true : enable

Parameter	Type	Description
video_optimization_enable	Boolean	Whether to enable video scene optimization. Options: false : disable; true : enable
gpu_color_optimization_enable	Boolean	Whether to enable GPU color optimization. Options: false : disable; true : enable
video_recognition_threshold	Integer	Video recognition threshold. The value ranges from 0 to 500. Default: 10
frame_rate_statistical_length	Integer	Frame rate statistical length. The value ranges from 2 to 100. Default: 4
image_quality_threshold	Integer	Image quality threshold. The value ranges from 0 to 100. Default: 0
refresh_frequency_threshold	Integer	Refresh frequency threshold. The value ranges from 1 to 100. Default: 3
exiting_video_area_threshold	Integer	Threshold of exiting the video area. The value ranges from 0 to 100. Default: 8
min_video_width	Integer	Minimum video width. The value ranges from 0 to 1,280. Default: 191
min_video_length	Integer	Minimum video height. The value ranges from 0 to 1,280. Default: 191
single_frame_natural_percentage	String	Threshold of the single-frame natural image block percentage. The value ranges from 0.000001 to 1. Default: 0.3
cyclical_natural_images_number	Integer	Threshold of cyclical natural image quantity percentage. The value ranges from 0 to 100. Default: 2
non_natural_image_percentage	String	Threshold of the non-natural image area percentage. The value ranges from 0.000001 to 1. Default: 0.85
non_natural_images_number	Integer	Threshold of non-natural image quantity percentage. The value ranges from 0 to 100. Default: 25

Table 4-1897 adaptive_bitrate_control_options

Parameter	Type	Description
peak_bandwidth_suppression_enable	Boolean	Whether to enable peak bandwidth suppression. Options: false : disable; true : enable
expected_average_network_latency	Integer	Expected average network latency, in millisecond. The value ranges from 1 to 2,000. Default: 160
network_latency_threshold1	Integer	Network latency threshold 1 (ms). The value ranges from 1 to 2,000. Default: 160
network_latency_threshold2	Integer	Network latency threshold 2 (ms). The value ranges from 1 to 2,000. Default: 300
min_dynamic_frame_rate	Integer	Minimum dynamic frame rate (FPS). The value ranges from 1 to 60. Default: 17
min_dynamic_frame_rate_lv1	Integer	Minimum dynamic frame rate level 1 (FPS). The value ranges from 1 to 60. Default: 17
min_dynamic_frame_rate_lv2	Integer	Minimum dynamic frame rate level 2 (FPS). The value ranges from 1 to 60. Default: 10
rtt_threshold	Integer	Frame rate control parameter 1. The value ranges from 0 to 1,000. Default: 20
min_add_framerate	Integer	Frame rate control parameter 2. The value ranges from 0 to 120. Default: 8
max_add_framerate	Integer	Frame rate control parameter 3. The value ranges from 0 to 120. Default: 20
sub_framerate	Integer	Frame rate control parameter 4. The value ranges from 0 to 120. Default: 25
adaptive_bandwidth_lower_limit	Integer	Adaptive bandwidth lower limit, in kbit/s. The value ranges from 100 to 20,000. Default: 500
adaptive_compression_quality_lower_limit	Integer	Lower limit of adaptive lossy compression quality. The value ranges from 1 to 100. Default: 60

Parameter	Type	Description
adaptive_compression_quality_upper_limit	Integer	Upper limit of adaptive lossy compression quality. The value ranges from 1 to 100. Default: 85
adaptive_compression_quality_increase_limit	Integer	Increase limit of adaptive lossy compression quality. The value ranges from 1 to 100. Default: 5
adaptive_compression_quality_decrease_limit	Integer	Decrease limit of adaptive lossy compression quality. The value ranges from 1 to 100. Default: 10
adaptive_average_quality_lower_limit	Integer	Lower limit of adaptive average video quality. The value ranges from 5 to 50. Default: 15
adaptive_average_quality_upper_limit	Integer	Upper limit of adaptive average video quality. The value ranges from 5 to 50. Default: 25
adaptive_average_quality_increase_limit	Integer	Increase limit of adaptive average video quality. The value ranges from 1 to 50. Default: 3
adaptive_average_quality_decrease_limit	Integer	Decrease limit of adaptive average video quality. The value ranges from 1 to 50. Default: 1
adaptive_min_quality_lower_limit	Integer	Lower limit of adaptive minimum video quality. The value ranges from 5 to 69. Default: 25
adaptive_min_quality_upper_limit	Integer	Upper limit of adaptive minimum video quality. The value ranges from 5 to 69. Default: 30
adaptive_min_quality_increase_limit	Integer	Increase limit of adaptive minimum video quality. The value ranges from 1 to 50. Default: 3
adaptive_min_quality_decrease_limit	Integer	Decrease limit of adaptive minimum video quality. The value ranges from 1 to 50. Default: 1

Table 4-1898 file_and_clipboard

Parameter	Type	Description
file_redirection	file_redirection object	File redirection.

Parameter	Type	Description
clip_length_limit_f lag_c2s	Boolean	Clipboard length.
clip_length_limit_c 2s	Integer	Client clipboard length.
clip_length_limit_f lag_s2c	Boolean	Clipboard length.
clip_length_limit_s 2c	Integer	Client clipboard length.
fd_mobile_client_r edir_enable	Boolean	Whether to enable mobile client file redirection. Options: false : disable; true : enable
clipboard_redirecti on	String	Clipboard redirection. Options: DISABLED (default) SERVER_TO_CLIENT_ENABLED (from the server to the client) CLIENT_TO_SERVER_ENABLED (from the client to the server) TWO_WAY_ENABLED (two-way)
clipboard_redirecti on_options	clipboard_redirec tion_options object	Clipboard redirection options.

Table 4-1899 file_redirection

Parameter	Type	Description
redirection_mode	String	File redirection. Options: DISABLED (default) READ_ONLY READ_AND_WRITE
options	options object	File redirection options.
vm_send_file_clien t	Boolean	Whether to enable the function of sending files from the VM to the client. Options: false : disable; true : enable
redirection_send_f ile_options	redirection_send_f ile_options object	Options for both redirection and file sending.

Table 4-1900 options

Parameter	Type	Description
fluid_control_switch_enable	Boolean	Whether to enable rate limit. Options: false : disable; true : enable
fluid_control_options	fluid_control_options object	Rate limit options.
compression_switch_enable	Boolean	Whether to enable compression. Options: false : disable; true : enable
compression_switch_options	compression_switch_options object	Compression options.
linux_file_size_supported_enable	Boolean	Whether to enable the function of setting the file size in Linux. Options: false : disable; true : enable
linux_file_size_supported_options	linux_file_size_supported_options object	Options for setting the file size in Linux.
linux_root_mount_switch_enable	Boolean	Whether to enable root directory mount in Linux. Options: false : disable; true : enable
linux_root_dir_list	String	Mount path of the Linux root directory. Default: \var\log
linux_file_mount_path	String	Mount path of the Linux file system. Default: \media\Volumes\swdb\mnt\home\storage\tmp\run\media
linux_fixed_drive_file_system_format	String	Linux fixed driver file system format.
linux_removable_drive_file_system_format	String	Linux removable driver file system format. Default: vfat ntfs msdos fuseblk sdcardfs exfat fuse.fdir lifs
linux_cdrom_drive_file_system_format	String	Linux CD-ROM driver file system format. Default: cd9660 iso9660 udf

Parameter	Type	Description
linux_network_drive_file_system_format	String	Linux network driver file system format. Default: smbfs afpfs cifs
path_separator	String	Path separator. Default:
fixed_drive_enable	Boolean	Whether to enable fixed drivers (such as local disks). Options: false : disable; true : enable
removable_drive_enable	Boolean	Whether to enable removable drivers (such as USB flash drives). Options: false : disable; true : enable
cd_rom_drive_enable	Boolean	Whether to enable CD-ROM drivers. Options: false : disable; true : enable
network_drive_enable	Boolean	Whether to enable network drivers. Options: false : disable; true : enable

Table 4-1901 fluid_control_options

Parameter	Type	Description
good_network_latency	Integer	Good network latency threshold (ms). The value ranges from 1 to 1,000. Default: 30
normal_network_latency	Integer	Normal network latency threshold (ms). The value ranges from 1 to 1,000. Default: 70
poor_network_latency	Integer	Poor network latency threshold (ms). The value ranges from 1 to 1,000. Default: 100
reducing_step	Integer	Reducing step (KB). The value ranges from 1 to 100. Default: 20
slow_increasing_step	Integer	Slow increasing step (KB). The value ranges from 1 to 100. Default: 10

Parameter	Type	Description
quick_increasing_step	Integer	Quick increasing step (KB). The value ranges from 1 to 100. Default: 20
start_speed	Integer	Initial transmission speed (KB/s). The value ranges from 1 to 10,240. Default: 1,024
test_block_size	Integer	Speed test block size (KB). The value ranges from 64 to 1,024. Default: 64
test_time_gap	Integer	Speed test block interval (ms). The value ranges from 1,000 to 100,000. Default: 10,000

Table 4-1902 compression_switch_options

Parameter	Type	Description
compression_threshold	Integer	Compression threshold (byte). The value ranges from 0 to 10,240. Default: 512
minimum_compression_rate	Integer	Minimum compression rate. The value ranges from 0 to 1,000. Default: 900

Table 4-1903 linux_file_size_supported_options

Parameter	Type	Description
linux_file_size_supported_threshold	Integer	File size threshold in Linux (byte). The value ranges from 0 to 4,096. Default: 100

Table 4-1904 redirection_send_file_options

Parameter	Type	Description
read_write_speed	Integer	Read/Write speed (kbit/s). The value ranges from 0 to 2147483647. Default: 0

Table 4-1905 clipboard_redirection_options

Parameter	Type	Description
rich_text_redirection_enable	Boolean	Whether to enable clipboard rich text redirection. Options: false : disable; true : enable
clipboard_file_redirection_enable	Boolean	Whether to enable clipboard file redirection. Options: false : disable; true : enable

Table 4-1906 Session

Parameter	Type	Description
vdi	Vdi object	VDI.
self_help_console	Boolean	Whether to enable preemption login to the self-help console. Options: false : disable; true : enable
disconnect_on_lock_flag	Boolean	Whether to disconnect after the screen is locked.
auto_lock_start_time	String	Start time when the lock takes effect. The format is hh:mm:ss.
auto_lock_end_time	String	Start time when the lock takes effect. The format is hh:mm:ss.

Table 4-1907 Vdi

Parameter	Type	Description
auto_lock_enable	Boolean	Whether to enable automatic screen locking. Options: false : disable; true : enable
auto_lock_options	AutoLockOptions object	Options available after automatic screen locking is enabled.
disconnect_logout_enable	Integer	Whether to enable automatic logout upon disconnection. Options: 0 : disable; 1 : enable
disconnect_logout_options	DisconnectLogoutOptions object	Options available after automatic logout upon disconnection is enabled.

Parameter	Type	Description
disconnect_hibernate_enable	Boolean	Whether to enable automatic logout upon disconnection. Options: 0 : disable; 1 : enable
disconnect_hibernate_options	disconnect_hibernate_options object	Options for hibernation upon disconnection.
no_operation_hibernate_enable	Boolean	Whether to enable automatic logout upon disconnection. Options: 0 : disable; 1 : enable
no_operation_hibernate_options	no_operation_hibernate_options object	Do not select the hibernation option.

Table 4-1908 AutoLockOptions

Parameter	Type	Description
auto_lock_minutes	Integer	Time before screen locking, in minute. The value ranges from 3 to 86,400. Default: 10
auto_disconnect	String	Automatic disconnection or logout. Options: AUTO_DISCONNECT (automatic disconnection); AUTO_LOGOUT (automatic logout); DISABLED (disabled); AUTO_RESTART (default, automatic restart); AUTO_STOP (automatic shutdown); HIBERNATE (hibernation)
options	AutoDisconnectOrLogoutControlOptions object	Options available after automatic disconnection or automatic logout is enabled.

Table 4-1909 AutoDisconnectOrLogoutControlOptions

Parameter	Type	Description
auto_disconnect_minutes	Integer	Time before disconnection or logout, in minute. The value ranges from 1 to 86,400. Default: 1,440

Table 4-1910 DisconnectLogoutOptions

Parameter	Type	Description
disconnect_logout_minutes	Integer	Time before automatic logout upon disconnection, in minute. The value ranges from 3 to 86,400. Default: 10

Table 4-1911 disconnect_hibernate_options

Parameter	Type	Description
disconnect_hibernate_minutes	Integer	Hibernation duration upon disconnection.

Table 4-1912 no_operation_hibernate_options

Parameter	Type	Description
no_operation_hibernate_minutes	Integer	Policy group ID.

Table 4-1913 VirtualChannel

Parameter	Type	Description
virtual_channel_control_enable	Boolean	Whether to enable the virtual channel policy. Options: false : disable; true : enable
options	VirtualChannelOptions object	Virtual channel policy options.

Table 4-1914 VirtualChannelOptions

Parameter	Type	Description
custom_virtual_channel_name	String	Custom registered virtual channel name. Currently, only ASCII characters are supported. The value can contain a maximum of 65,535 characters.
virtual_channel_plugin_details	String	Virtual channel download details (Base64-encoded). Before encryption, only ASCII characters are supported. The value can contain a maximum of 65,535 characters.

Parameter	Type	Description
third_party_plugin_name	String	Third-party plug-in name. The value can contain a maximum of 65,535 characters.

Table 4-1915 Watermark

Parameter	Type	Description
watermark_enable	Boolean	Indicates whether to enable the watermark policy. Options: false : disable; true : enable
options	WatermarkOptions object	Watermark policy options.

Table 4-1916 WatermarkOptions

Parameter	Type	Description
show_style	String	Display mode. Options: FIXED (fixed position); RANDOM (random motion)
color	String	Color. Format: RRGGBB . Default: 2a2a2a
font_size	Integer	Font size. The value ranges from 1 to 200. Default: 30
opacity_setting	String	Opacity (%). The value ranges from 0 to 100. Default: 12.5
content_item_count	Integer	Number of watermarks. The value ranges from 1 to 30. Default: 1
display_format	String	Watermark content display format.
lean	Integer	Tilt. The value ranges from -90 to 90. Default: -45
content_customized	String	Custom content, which cannot contain special characters such as >.
content_color	String	Content color.
watermark_security_access	Boolean	Whether to enable the security-first mode.
user_extend_info_switch	Boolean	Whether to enable extended user information. false : disable; true : enable

Parameter	Type	Description
user_extend_info	String	Extended user information.

Table 4-1917 keyboard_mouse

Parameter	Type	Description
mouse_feedback	String	VM mouse device feedback. Options: SELFADAPTION : adaptive mouse device feedback FORCE : forcible mouse device feedback CLOSE : no mouse device feedback
mouse_simulation_mode	String	VM mouse device simulation mode. Options: ABSOLUTE_POSITION : absolute position simulation RELATIVE_POSITION : relative position simulation
external_cursor_feedback	Boolean	Whether to enable VM external cursor feedback. Options: false : disable; true : enable
selfhelp_console_enable	Boolean	Whether to enable preemption login to the self-help console. Options: false : disable; true : enable
client_mouse_send_interval	Integer	Interval for sending mouse device operations on the client. The value ranges from 1 to 30. Default: 30
windows_client_keyboard_mode	String	Windows client keyboard mode. Options: GLOBAL : global mode for Windows client keyboards (default) WINDOW : windowed mode for for Windows client keyboards

Parameter	Type	Description
windows_client_mouse_mode	String	Windows client mouse device mode. Options: GLOBAL : global mode for Windows client mouse devices WINDOW : windowed mode for Windows client mouse devices (default)
linux_client_keyboard_mode	String	Linux client keyboard mode. Options: EVENT : event mode for Linux client keyboards (default) GRAPH : graphics mode for Linux client keyboards
linux_client_mouse_mode	String	Linux client mouse device mode. Options: EVENT : event mode for Linux client mouse devices (default) GRAPH : graphics mode for Linux client mouse devices
special_keyboard	Boolean	Special keyboard. Options: false : disable; true : enable
joy_stick_flag	Boolean	Joystick. Options: false : disable; true : enable

Table 4-1918 seamless

Parameter	Type	Description
seamless_enable	Boolean	Whether to enable audio/video bypass. Options: false : disable; true : enable
options	options object	General audio/video settings.

Table 4-1919 options

Parameter	Type	Description
seamless_apply_path	String	Software path. A maximum of 1,000 characters are allowed.

Table 4-1920 personalized_data_mgmt

Parameter	Type	Description
personalized_data_mgmt_path	String	Personalized data management path.
user_data_roaming_enable	Boolean	User data roaming.
user_data_roaming_options	user_data_roaming_options object	User data roaming options.
user_folder_redirection_enable	Boolean	Enables user folder redirection.
user_folder_redirection_options	user_folder_redirection_options object	User folder redirection options.
logoff_delete_user_configuration	Boolean	Enables user folder redirection.
network_drive_mapping_enable	Boolean	Enables user folder redirection.
network_drive_mapping_options	network_drive_mapping_options object	Network driver mapping options.

Table 4-1921 user_data_roaming_options

Parameter	Type	Description
profile_streaming_enable	Boolean	Whether to enable profile streaming.
roamed_files_local_path	String	Local path of roamed files.
exclude_folders_path	String	Path of an excluded folder.
roaming_registry_method	String	Path of an excluded folder.

Parameter	Type	Description
roaming_registry_path	String	Path of roaming registration.

Table 4-1922 user_folder_redirection_options

Parameter	Type	Description
restore_local_directories_enable	Boolean	Enables the restoration of local directories.
appData_roaming_enable	Boolean	Enables application data roaming.
redirec_desktop	Boolean	Desktop redirection.
redirec_start_menu	Boolean	Start menu.
redirec_documents	Boolean	Document.
redirec_pictures	Boolean	Photo.
redirec_music	Boolean	Music.
redirec_videos	Boolean	Audio recording.
redirec_favorites	Boolean	Favorite.
redirec_contacts	Boolean	Audio recording.
redirec_downloads	Boolean	Download.
redirec_links	Boolean	Link
redirec_searches	Boolean	Search.
redirec_saved_games	Boolean	Game storage.

Table 4-1923 network_drive_mapping_options

Parameter	Type	Description
network_drive_mapping_path	String	Network drive mapping path.
drive_letter	String	Path of an excluded folder.

Table 4-1924 custom

Parameter	Type	Description
custom_configuration1_enable	Boolean	Whether to enable custom configuration.
options	options object	General audio/video settings.

Table 4-1925 options

Parameter	Type	Description
custom_configuration1_rule	String	Custom configuration rule.

Table 4-1926 record_audit

Parameter	Type	Description
enable	Boolean	Whether to enable screen recording audit. Options: false : disable; true : enable
rules	rules object	Screen recording rules.
storage_type	String	Storage type. Options: OBS : OBS bucket SFTP : SFTP interconnection
obs_bucket_source	String	OBS bucket source. Options: AUTO_CREATE : automatically created CREATED : created
obs_bucket_name	String	OBS bucket name
retention_duration	Integer	Retention period of a screen recording file, in days. The value ranges from 1 to 180. 0 indicates that the file is retained permanently.

Table 4-1927 rules

Parameter	Type	Description
rule	RecordAuditRule object	Rule.

Table 4-1928 RecordAuditRule

Parameter	Type	Description
record_type	String	Recording type. Options: whole : continuous screen recording interval : interval screen recording userOperations : screen recording by users sessionMonitoring : screen recording of the session lifecycle
interval_record_start_time	String	Start time of interval-based screen recording. This parameter is valid only when interval is used. The format is hh:mm.
interval_record_end_time	String	End time of interval-based screen recording. This parameter is valid only when interval is used. The format is hh:mm.
op_type	String	Operation triggering type. This parameter is valid only when userOperations is used. Options: input : Screen recording is started once the user enters content. filecopy : Screen recording is started once the user copies a file.
audio_record	Boolean	Whether to enable audio recording. Options: false : disable; true : enable
fps	String	Recording frame rate. The value can be 2, 5, 10, or 15 .
duration	String	Duration of a single video recording file, in minutes. The value can be 10, 20, 30, or 60 .
resolution	String	Resolution settings. The value can be 720P, 1080P, or original .
event_enable	Boolean	Whether to enable key event audit. Options: false : disabled true : enabled
file_suffix	String	File name extension. Use vertical bars () to separate multiple file name extensions.

Parameter	Type	Description
regit_paths	String	Registry path. Use vertical bars () to separate multiple registry paths.
app_filter_type	String	Application filtering type. The value can be black (blacklist) or white (whitelist).
app_white_list	String	Enables or disables the application whitelist. If it is enabled, only the whitelisted applications are monitored.
app_black_list	String	Enables or disables the application blacklist. Blacklisted applications will be ignored.

Status code: 400**Table 4-1929** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401**Table 4-1930** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403

Table 4-1931 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-1932** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 405**Table 4-1933** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500

Table 4-1934 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 503**Table 4-1935** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
PUT /v2/089b2f9a3d80d3062f24c00ca4ed5cbd/policy-groups/8ac225c277ceab6d0177cf829bd6008b/policies
```

```
{
  "policies" : {
    "session" : {
      "vdi" : {
        "auto_lock_enable" : true,
        "auto_lock_options" : {
          "auto_lock_minutes" : 10,
          "auto_disconnect" : "DISABLED",
          "options" : {
            "auto_disconnect_minutes" : 1440
          }
        }
      },
      "disconnect_logout_enable" : 0,
      "disconnect_logout_options" : {
        "disconnect_logout_minutes" : 10
      }
    },
    "self_help_console" : true,
    "disconnect_on_lock_flag" : false,
    "auto_lock_start_time" : "00:00:00",
    "auto_lock_end_time" : "23:59:59"
  }
}
```

Example Responses

Status code: 200

Response to the request for modifying some or all policy items of a policy group.

```
{
  "policies" : {
    "peripherals" : {
      "usb_custom_policy_debug" : "string",
      "usb_port_redirection" : {
        "usb_enable" : true,
        "options" : {
          "usb_image_enable" : true,
          "usb_video_enable" : true,
          "usb_printer_enable" : true,
          "usb_storage_enable" : false,
          "wireless_devices_enable" : false,
          "network_devices_enable" : false,
          "usb_smart_card_enable" : true,
          "other_usb_devices_enable" : false,
          "usb_redirection_customization_policy" : "string",
          "usb_redirection_mode" : "Common mode"
        }
      }
    },
    "device_redirection" : {
      "printer_redirection" : {
        "printer_enable" : true,
        "options" : {
          "mobile_printer_enable" : false,
          "print_data_compression_mode" : false,
          "sync_client_default_printer_enable" : true,
          "universal_printer_driver" : "Default"
        }
      }
    },
    "session_printer" : {
      "session_printer_enable" : false,
      "options" : {
        "session_printer_customization_policy" : "string"
      }
    },
    "camera_redirection" : {
      "video_compress_enable" : true,
      "options" : {
        "camera_frame_rate" : 15,
        "camera_max_width" : 3000,
        "camera_max_height" : 3000,
        "camera_compression_method" : "H.264"
      }
    },
    "twain_redirection_enable" : true,
    "image_compression_level" : "medium",
    "hid_redirection" : {
      "hid_redirection_enable" : false,
      "options" : {
        "hid_redirection_customization_policy" : "string"
      }
    }
  },
  "usb_device_common" : {
    "pcsc_smart_card_enable" : "Disable",
    "common_options" : {
      "remove_smart_card_disconnect_enable" : false
    }
  },
  "serial_port_redirection" : {
    "serial_port_enable" : false,
    "options" : {
      "auto_connect_enable" : false
    }
  }
}
```

```

    }
  },
  "parallel_port_redirection" : {
    "parallel_port_enable" : false
  },
  "driver_interface_redirection" : {
    "api_redir_driver_list" : "string"
  }
},
"audio" : {
  "audio_redirection_enable" : true,
  "play_volume" : "Do Not Set Volume",
  "play_volume_ratio" : "Do Not Set Volume Ratio",
  "record_volume" : "100",
  "record_volume_ratio" : "Do Not Set Volume Ratio",
  "audio_transmission_mode" : "Reliable Transmission",
  "play_redirection_enable" : true,
  "play_classification" : "Music Play",
  "play_quality" : "Middle",
  "play_denoising" : "Disable Denoising",
  "play_agc" : "Disable AGC",
  "play_crc" : "Disable CRC",
  "play_device_mode" : "Play Device In Shared Mode",
  "play_delay_threshold" : "240",
  "play_amplitude_threshold" : "4096",
  "play_prefill_data" : "Do Not Prefill Data",
  "record_redirection_enable" : true,
  "record_classification" : "Speech Call",
  "record_quality" : "Middle",
  "record_denoising" : "-25",
  "record_agc" : "Disable AGC",
  "record_crc" : "Disable CRC",
  "record_device_mode" : "Record Device In Shared Mode",
  "record_delay_threshold" : "200",
  "record_amplitude_threshold" : "4096"
},
"client" : {
  "automatic_reconnection_interval" : 5,
  "session_persistence_time" : 180,
  "autoclose_monitor_after_locked" : false,
  "autoclose_monitor_options" : {
    "autoclose_monitor_wait_time" : 300
  },
  "forbid_screen_capture" : false,
  "client_machine_join_domain" : true,
  "client_type" : {
    "client_type_limit" : true,
    "options" : {
      "sc_type_window" : true,
      "sc_type_mac" : true,
      "sc_type_android" : true,
      "sc_type_linux" : true,
      "sc_type_h5" : true,
      "sc_type_ios" : true,
      "sc_type_harmony_os" : true,
      "tc_type_all" : true
    }
  }
},
"display" : {
  "display_level" : "LEVEL4",
  "options" : {
    "display_bandwidth" : 20000,
    "frame_rate" : 25,
    "video_frame_rate" : 30,
    "min_image_cache" : 200,
    "smoothing_factor" : 60,
    "lossless_compression_mode" : "Basic Compression",
    "deep_compression_options" : {

```

```

    "deep_compression_level" : "Compression grade 0"
  },
  "lossy_compression_quality" : 85,
  "color_enhancement_enable" : false,
  "quality_bandwidth_first" : "Quality First",
  "video_bit_rate_options" : {
    "average_video_bit_rate" : 18000
  },
  "peak_video_bit_rate" : 18000,
  "video_quality_options" : {
    "average_video_quality" : 15,
    "lowest_video_quality" : 25,
    "highest_video_quality" : 7
  },
  "gop_size" : 100,
  "encoding_preset" : "Preset 1"
},
"rendering_acceleration_enable" : false,
"rendering_acceleration_options" : {
  "video_acceleration_enhancement_enable" : true,
  "video_optimization_enable" : false,
  "gpu_color_optimization_enable" : false,
  "video_recognition_threshold" : 10,
  "frame_rate_statistical_length" : 4,
  "image_quality_threshold" : 0,
  "refresh_frequency_threshold" : 3,
  "exiting_video_area_threshold" : 8,
  "min_video_width" : 191,
  "min_video_length" : 191,
  "single_frame_natural_percentage" : "0.3",
  "cyclical_natural_images_number" : 2,
  "non_natural_image_percentage" : "0.85",
  "non_natural_images_number" : 25
},
"adaptive_bitrate_control_enable" : false,
"adaptive_bitrate_control_options" : {
  "peak_bandwidth_suppression_enable" : false,
  "expected_average_network_latency" : 160,
  "network_latency_threshold1" : 160,
  "network_latency_threshold2" : 300,
  "min_dynamic_frame_rate" : 17,
  "min_dynamic_frame_rate_lv1" : 17,
  "min_dynamic_frame_rate_lv2" : 10,
  "rtt_threshold" : 20,
  "min_add_framerate" : 8,
  "max_add_framerate" : 20,
  "sub_framerate" : 25,
  "adaptive_bandwidth_lower_limit" : 500,
  "adaptive_compression_quality_lower_limit" : 60,
  "adaptive_compression_quality_upper_limit" : 85,
  "adaptive_compression_quality_increase_limit" : 5,
  "adaptive_compression_quality_decrease_limit" : 10,
  "adaptive_average_quality_lower_limit" : 15,
  "adaptive_average_quality_upper_limit" : 25,
  "adaptive_average_quality_increase_limit" : 3,
  "adaptive_average_quality_decrease_limit" : 1,
  "adaptive_min_quality_lower_limit" : 25,
  "adaptive_min_quality_upper_limit" : 30,
  "adaptive_min_quality_increase_limit" : 3,
  "adaptive_min_quality_decrease_limit" : 1
},
"video_card_memory_size" : 64,
"configuration1_enable" : false,
"driver_delegation_mode_enable" : false,
"driver_delegation_latency" : 80,
"video_latency" : 80,
"change_resolution_vm" : false,
"application_recognition" : "string",
"duplicate_display_enable" : false,

```

```

"default_mapping_order" : "1,2,3,4",
"duplicate_display_mode" : "One-to-One"
},
"file_and_clipboard" : {
  "file_redirection" : {
    "redirection_mode" : "DISABLED",
    "options" : {
      "fluid_control_switch_enable" : false,
      "fluid_control_options" : {
        "good_network_latency" : 30,
        "normal_network_latency" : 70,
        "poor_network_latency" : 100,
        "reducing_step" : 20,
        "slow_increasing_step" : 10,
        "quick_increasing_step" : 20,
        "start_speed" : 1024,
        "test_block_size" : 64,
        "test_time_gap" : 10000
      },
      "compression_switch_enable" : false,
      "compression_switch_options" : {
        "compression_threshold" : 512,
        "minimum_compression_rate" : 900
      },
      "linux_file_size_supported_enable" : true,
      "linux_file_size_supported_options" : {
        "linux_file_size_supported_threshold" : 100
      },
      "linux_root_mount_switch_enable" : true,
      "linux_root_dir_list" : "\\\\.\\var\\log",
      "linux_file_mount_path" : "\\\\.\\media\\Volumes\\swdb\\mnt\\home\\storage\\tmp\\run
\\\\media",
      "linux_fixed_drive_file_system_format" : "string",
      "linux_removable_drive_file_system_format" : "vfat|ntfs|msdos|fuseblk|sdcardfs|exfat|fuse.fdirir|lifs",
      "linux_cdrom_drive_file_system_format" : "cd9660|iso9660|udf",
      "linux_network_drive_file_system_format" : "smbfs|afpfs|cifs",
      "path_separator" : "|",
      "fixed_drive_enable" : true,
      "removable_drive_enable" : true,
      "cd_rom_drive_enable" : true,
      "network_drive_enable" : true
    },
    "vm_send_file_client" : true,
    "redirection_send_file_options" : {
      "read_write_speed" : 0
    }
  },
  "clip_length_limit_flag_c2s" : true,
  "clip_length_limit_c2s" : 180,
  "clip_length_limit_flag_s2c" : true,
  "clip_length_limit_s2c" : 180,
  "fd_mobile_client_redir_enable" : true,
  "clipboard_redirection" : "DISABLED",
  "clipboard_redirection_options" : {
    "rich_text_redirection_enable" : true,
    "clipboard_file_redirection_enable" : true
  }
},
"session" : {
  "vdi" : {
    "auto_lock_enable" : true,
    "auto_lock_options" : {
      "auto_lock_minutes" : 10,
      "auto_disconnect" : "DISABLED",
      "options" : {
        "auto_disconnect_minutes" : 1440
      }
    }
  },
  "disconnect_logout_enable" : 0,

```

```

"disconnect_logout_options" : {
  "disconnect_logout_minutes" : 10
},
"disconnect_hibernate_enable" : false,
"disconnect_hibernate_options" : {
  "disconnect_hibernate_minutes" : 0
},
"no_operation_hibernate_enable" : false,
"no_operation_hibernate_options" : {
  "no_operation_hibernate_minutes" : 0
}
},
"self_help_console" : true,
"disconnect_on_lock_flag" : false,
"auto_lock_start_time" : "00:00:00",
"auto_lock_end_time" : "23:59:59"
},
"virtual_channel" : {
  "virtual_channel_control_enable" : false,
  "options" : {
    "custom_virtual_channel_name" : "string",
    "virtual_channel_plugin_details" : "string",
    "third_party_plugin_name" : "string"
  }
},
"watermark" : {
  "watermark_enable" : false,
  "options" : {
    "show_style" : "RANDOM",
    "color" : "2a2a2a",
    "font_size" : 30,
    "opacity_setting" : "12.5",
    "content_item_count" : 1,
    "display_format" : "{\\"AlignMode\\":\\"left\\",\\"DateTimeFormat\\":\\"DT\\",\\"DateFormat\\":\\"yyyy-mm-dd
\\",\\"TimeFormat\\":\\"hh:mm:ss\\",\\"RepeatCount\\":2,\\"RepeatInterval\\":10,\\"DisplayFormat\\":
{\\"Content1\\":\\"CustomContent\\",\\"Interval1\\":\\"n\\",\\"Content2\\":\\"UserName
\\",\\"Interval2\\":\\"4\\",\\"Content3\\":\\"DateTime\\"}},
    "lean" : -45,
    "content_customized" : "string",
    "content_color" : 522857002,
    "watermark_security_access" : false,
    "user_extend_info_switch" : false,
    "user_extend_info" : "string"
  }
},
"keyboard_mouse" : {
  "mouse_feedback" : "SELFADAPTION",
  "mouse_simulation_mode" : "ABSOLUTE_POSITION",
  "external_cursor_feedback" : false,
  "selfhelp_console_enable" : true,
  "client_mouse_send_interval" : 30,
  "windows_client_keyboard_mode" : "GLOBAL",
  "windows_client_mouse_mode" : "WINDOW",
  "linux_client_keyboard_mode" : "EVENT",
  "linux_client_mouse_mode" : "EVENT",
  "special_keyboard" : false,
  "joy_stick_flag" : false
},
"seamless" : {
  "seamless_enable" : false,
  "options" : {
    "seamless_apply_path" : "string"
  }
},
"personalized_data_mgmt" : {
  "personalized_data_mgmt_path" : "string",
  "user_data_roaming_enable" : false,
  "user_data_roaming_options" : {
    "profile_streaming_enable" : false,

```


Status Code	Description
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.14.8 Querying Objects to Which a Policy Group Is Applied

Function

Queries objects to which a policy group is applied.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/policy-groups/{policy_group_id}/targets

Table 4-1936 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
policy_group_id	Yes	String	Policy group ID.

Table 4-1937 Query Parameters

Parameter	Mandatory	Type	Description
target_type	No	String	Object type. Options: <ul style="list-style-type: none"> ● INSTANCE: desktops ● USER: users ● OU: organization units ● CLIENTIP: terminal IP addresses
target_name	No	String	Object name. Fuzzy search is supported.
limit	No	Integer	Number of records on each page. The value ranges from 0 to 1000.
offset	No	String	Offset.

Request Parameters

Table 4-1938 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body, for example, application/json .

Response Parameters

Status code: 200

Table 4-1939 Response body parameters

Parameter	Type	Description
targets	Array of Target objects	Objects to which a policy applies.
total_count	Integer	Number of users in the list.

Table 4-1940 Target

Parameter	Type	Description
target_id	String	Object ID.
target_name	String	Object name. The value can contain a maximum of 55 characters.
target_type	String	Object type. <ul style="list-style-type: none"> • INSTANCE: desktops • target_id: desktop SIDs • target_name: desktop names • USER: users • target_id: user IDs • target_name: usernames • USERGROUP: user groups • target_id: user group IDs • target_name: user group names • CLIENTIP: terminal IP addresses • target_id: terminal IP addresses • target_name: terminal IP addresses • OU: organization units • target_id: OU IDs • target_name: OU names • DESKTOPSPOOL: desktop pools • target_id: desktop pool IDs • target_name: desktop pool names • ALL: all desktops • target_id: default-apply-all-targets • target_name: All-Targets

Status code: 400**Table 4-1941** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401**Table 4-1942** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-1943** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-1944** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 405

Table 4-1945 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-1946** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 503**Table 4-1947** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
GET /v2/29dfe82ada564ac2b927e1ff036d9a9b/policy-groups/401a23865cae63f3015cceb9affe0049/targets?target_type=INSTANCE&limit=1&offset=1
```

Example Responses

Status code: 200

Response to the request for querying objects to which a policy is applied.

```
{
  "targets": [ {
    "target_id": "S-1-5-21-1065092785-1316984780-3147557180-9999",
    "target_type": "USER",
    "target_name": "All-Targets-123"
  }, {
    "target_id": "192.168.1.1",
    "target_type": "CLIENTIP",
    "target_name": "192.168.1.1"
  } ]
}
```

Status Codes

Status Code	Description
200	Response to the request for querying objects to which a policy is applied.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.14.9 Modifying Objects to Which a Policy Group Is Applied

Function

Batch adds or deletes objects to which a policy group is applied.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT /v2/{project_id}/policy-groups/{policy_group_id}/targets

Table 4-1948 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
policy_group_id	Yes	String	Policy group ID.

Request Parameters

Table 4-1949 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body, for example, application/json .

Table 4-1950 Request body parameters

Parameter	Mandatory	Type	Description
add	No	Array of Target objects	Adds an application.
delete	No	Array of Target objects	Deletes an application.

Table 4-1951 Target

Parameter	Mandatory	Type	Description
target_id	No	String	Object ID.
target_name	No	String	Object name. The value can contain a maximum of 55 characters.

Parameter	Mandatory	Type	Description
target_type	No	String	<p>Object type.</p> <ul style="list-style-type: none"> • INSTANCE: desktops • target_id: desktop SIDs • target_name: desktop names • USER: users • target_id: user IDs • target_name: usernames • USERGROUP: user groups • target_id: user group IDs • target_name: user group names • CLIENTIP: terminal IP addresses • target_id: terminal IP addresses • target_name: terminal IP addresses • OU: organization units • target_id: OU IDs • target_name: OU names • DESKTOPPOOL: desktop pools • target_id: desktop pool IDs • target_name: desktop pool names • ALL: all desktops • target_id: default-apply-all-targets • target_name: All-Targets

Response Parameters

Status code: 200

Normal.

Status code: 400

Table 4-1952 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401**Table 4-1953** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-1954** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404

Table 4-1955 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 405**Table 4-1956** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-1957** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 503

Table 4-1958 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
PUT /v2/29dfe82ada564ac2b927e1ff036d9a9b/policy-groups/401a23865cae63f3015cceb9affe0049/targets
{
  "add" : [ {
    "target_id" : "xxxx-xxxx-xxxx-xxxx",
    "target_type" : "USER",
    "target_name" : "All-Targets-123"
  } ],
  "delete" : [ {
    "target_id" : "xxxx-xxxx-xxxx-xxxx",
    "target_type" : "USER",
    "target_name" : "All-Targets-456"
  } ]
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Normal.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.14.10 Querying Policy Group Details

Function

Policy information and object information.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/policy-groups/detail

Table 4-1959 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-1960 Query Parameters

Parameter	Mandatory	Type	Description
limit	No	Integer	Used for pagination query. The value ranges from 0 to 100.
offset	No	Integer	Where the pagination query starts. The value ranges from 0 to 10,000.
policy_group_id	No	String	Filters results by policy group ID.
policy_group_name	No	String	Filters results by policy group name.
priority	No	Integer	Filters results by priority. The value cannot exceed the maximum value of the existing policy group's priority.
update_time	No	String	Filters results by update time. The time format is yyyy-MM-dd HH:mm:ss.
description	No	String	Policy group description.

Request Parameters

Table 4-1961 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body, for example, application/json .

Response Parameters

Status code: 200

Table 4-1962 Response body parameters

Parameter	Type	Description
policy_groups	Array of PolicyGroupForList objects	Policy group.
total_count	Integer	Total number.

Table 4-1963 PolicyGroupForList

Parameter	Type	Description
policy_group_id	String	Policy group ID.
policy_group_name	String	Policy group name.
priority	Integer	Priority.
update_time	String	Update date.
description	String	Policy group description.
policies	Policies object	Policy class.
targets	Array of Target objects	Objects to which a policy applies.

Table 4-1964 Policies

Parameter	Type	Description
peripherals	peripherals object	Peripheral.
audio	audio object	Audio.
client	client object	Client.
display	display object	Display.
file_and_clipboard	file_and_clipboard object	Files and clipboards.
session	Session object	Sessions.
virtual_channel	VirtualChannel object	Virtual channels.
watermark	Watermark object	Watermarking.
keyboard_mouse	keyboard_mouse object	Keyboards and mouse devices.
seamless	seamless object	Audio/Video bypass.
personalized_data_mgmt	personalized_data_mgmt object	Personalized data management.
custom	custom object	Custom policy.
record_audit	record_audit object	Screen recording audit.

Table 4-1965 peripherals

Parameter	Type	Description
usb_custom_policy_debug	String	Device debugging policy.
usb_port_redirection	usb_port_redirection object	USB port redirection.
device_redirection	device_redirection object	Device redirection.
usb_device_common	usb_device_common object	USB and device smartcard options.
serial_port_redirection	serial_port_redirection object	Serial port redirection.

Parameter	Type	Description
parallel_port_redirection	parallel_port_redirection object	Parallel port redirection.
driver_interface_redirection	driver_interface_redirection object	Driver interface redirection.

Table 4-1966 usb_port_redirection

Parameter	Type	Description
usb_enable	Boolean	Whether to enable USB port redirection. Options: false : disable; true : enable
options	options object	USB port redirection options.

Table 4-1967 options

Parameter	Type	Description
usb_image_enable	Boolean	Whether to enable image devices, such as scanners. Options: false : disable; true : enable
usb_video_enable	Boolean	Whether to enable video devices, such as cameras. Options: false : disable; true : enable
usb_printer_enable	Boolean	Whether to enable print devices, such as printers. Options: false : disable; true : enable
usb_storage_enable	Boolean	Whether to enable storage devices, such as USB flash drives. Options: false : disable; true : enable
wireless_devices_enable	Boolean	Whether to enable wireless devices, such as Bluetooth. Options: false : disable; true : enable

Parameter	Type	Description
network_devices_enable	Boolean	Whether to enable network devices, such as wireless NICs. Options: false : disable; true : enable
usb_smart_card_enable	Boolean	Whether to enable smartcard devices, such as USB keys. Options: false : disable; true : enable
other_usb_devices_enable	Boolean	Whether to enable the redirection of other USB devices. Options: false : disable; true : enable
usb_redirection_customization_policy	String	Custom policy for USB port redirection. The value contains a maximum of 18,000 characters.
usb_redirection_mode	String	USB redirection mode. Options: Classical mode Common mode

Table 4-1968 device_redirection

Parameter	Type	Description
printer_redirection	printer_redirection object	Printer redirection.
session_printer	session_printer object	Session printer.
camera_redirection	camera_redirection object	Camera redirection.
twain_redirection_enable	Boolean	Whether to enable TWAIN device redirection. Options: false : disable; true : enable

Parameter	Type	Description
image_compression_level	String	Image compression level. Options: none low (highest speed) medium (medium speed) high (lowest speed) lossless low-loss medium-loss high-loss
hid_redirection	hid_redirection object	Human interface device (HID) redirection.

Table 4-1969 printer_redirection

Parameter	Type	Description
printer_enable	Boolean	Whether to enable printer redirection. Options: false : disable; true : enable
options	options object	Printer redirection options.

Table 4-1970 options

Parameter	Type	Description
mobile_printer_enable	Boolean	Mobile client printer redirection. Options: false : disable; true : enable
print_data_compression_mode	Boolean	Whether to enable data compression. Options: false : disable; true : enable
sync_client_default_printer_enable	Boolean	Whether to enable default client printer synchronization. Options: false : disable; true : enable

Parameter	Type	Description
universal_printer_driver	String	Universal printer driver. By default, choose Universal Printing PS for Linux clients and HDP XPSDrv Driver for Windows clients. Options: HDP XPSDrv Driver; Universal Printing PCL 5 Universal Printing PCL 6 Universal Printing PS

Table 4-1971 session_printer

Parameter	Type	Description
session_printer_enable	Boolean	Whether to enable session printers. Options: false : disable; true : enable
options	options object	Session printer options.

Table 4-1972 options

Parameter	Type	Description
session_printer_customization_policy	String	Custom session printer policy. A maximum of 1,000 characters are allowed.

Table 4-1973 camera_redirection

Parameter	Type	Description
video_compress_enable	Boolean	Whether to enable camera redirection. Options: false : disable; true : enable
options	options object	Camera redirection options.

Table 4-1974 options

Parameter	Type	Description
camera_frame_rate	Integer	Camera frame rate (FPS). The value ranges from 1 to 30. Default: 15
camera_max_width	Integer	Camera maximum width (pixel). The value ranges from 1 to 9999. Default: 3000
camera_max_height	Integer	Camera maximum height (pixel). The value ranges from 1 to 9999. Default: 3000
camera_compression_method	String	Camera data compression method. The value is H.264 .

Table 4-1975 hid_redirection

Parameter	Type	Description
hid_redirection_enable	Boolean	Whether to enable HID redirection. Options: false : disable; true : enable
options	options object	HID options.

Table 4-1976 options

Parameter	Type	Description
hid_redirection_customization_policy	String	Custom HID redirection policy.

Table 4-1977 usb_device_common

Parameter	Type	Description
pcsc_smart_card_enable	String	Whether to enable PC/SC smartcard redirection. Options: Enable : enabled Closed : closed Disable : disabled
common_options	common_options object	Options for both USB devices and device smartcards.

Table 4-1978 common_options

Parameter	Type	Description
remove_smart_card_disconnect_enable	Boolean	Whether to enable smartcard removal to log out of user sessions. Options: false : disable; true : enable

Table 4-1979 serial_port_redirection

Parameter	Type	Description
serial_port_enable	Boolean	Whether to enable serial port redirection. Options: false : disable; true : enable
options	options object	Serial port redirection options.

Table 4-1980 options

Parameter	Type	Description
auto_connect_enable	Boolean	Whether to enable automatic connection to client serial ports. Options: false : disable; true : enable

Table 4-1981 parallel_port_redirection

Parameter	Type	Description
parallel_port_enable	Boolean	Whether to enable parallel port redirection. Options: false : disable; true : enable

Table 4-1982 driver_interface_redirection

Parameter	Type	Description
api_redir_driver_list	String	Custom drivers. Enter one or more driver file names or full paths of driver files installed on terminals. Separate file names or paths with semicolons (;). A maximum of 1,000 characters are allowed.

Table 4-1983 audio

Parameter	Type	Description
audio_redirection_enable	Boolean	Whether to enable audio redirection. Options: false : disable; true : enable
play_volume	String	Playback volume. If this parameter is not specified, the value is Do Not Set Volume . Volume setting. The value ranges from 10 to 100, and the interval between two adjacent values is 5 in ascending order, for example, 10, 15, 20, and 25.
play_volume_ratio	String	Playback volume ratio. Options: If this parameter is not specified, the value is Do Not Set Volume Ratio . Low Middle : medium High
record_volume	String	Recording volume. If this parameter is not specified, the value is Do Not Set Volume . Volume setting. The value ranges from 10 to 100, and the interval between two adjacent values is 5 in ascending order, for example, 10, 15, 20, and 25.

Parameter	Type	Description
record_volume_ratio	String	Recording volume ratio. Options: If this parameter is not specified, the value is Do Not Set Volume Ratio . Low Middle : medium High
audio_transmission_mode	String	Audio transmission mode. Options: Reliable Transmission Real Time Transmission
play_redirection_enable	Boolean	Whether to enable playback redirection. Options: false : disable; true : enable
play_classification	String	Playback scenario. Options: Lossless Speech Call Music Play Automatic Identification
play_quality	String	Playback quality. Options: Low Middle : medium High
play_denoising	String	Playback denoising. Options: Disabled. Enabled: The value ranges from -100 to -5, and the interval between two adjacent values is 5 in ascending order, for example, -100, -95, -90, and -85.
play_agc	String	Playback AGC. Options: Disabled. Enabled: The value ranges from 4,000 to 32,000. From 10,000 on, the interval between two adjacent values is 1,000 in ascending order, for example, 4,000, 6,000, 8,000, 10,000, 11,000, 12,000 and 13,000.
play_crc	String	Playback CRC. Options: Disable CRC Enable CRC

Parameter	Type	Description
play_device_mode	String	Playback device mode. Options: Play Device In Shared Mode Play Device In Exclusive Mode
play_delay_threshold	String	Playback delay threshold. The value ranges from 160 to 2,500. The values less than 400 are in ascending order with an interval of 40, and the values between 400 and 1,000 are in ascending order with an interval of 50. For example, the values can be as follows: 2,500, 2,000, 1,800, 1,500, 1,200, 1,000, 950, 900, 850.
play_amplitude_threshold	String	Playback amplitude threshold. The values can be: 2,048, 4,096, 5,120, 6,144, 7,168, 8,192.
play_prefill_data	String	Playback prefill data. Options: Do Not Prefill Data ; Prefill Data : The value ranges from 50 to 2,000. The values less than 250 are in an ascending order with an interval of 50, and the values between 250 and 500 are in an ascending order with an interval of 100. For example, the values can be as follows: 2,000, 1,500, 1,000, 500, 400, 300, 250.
record_redirection_enable	Boolean	Whether to enable recording redirection. Options: false : disable; true : enable
record_classification	String	Recording scenario. Options: Lossless Speech Call Music Record Automatic Identification
record_quality	String	Recording quality. Options: Low Middle : medium High

Parameter	Type	Description
record_denoising	String	Recording denoising. Options: Disabled. Enabled: The value ranges from -100 to -5, and the interval between two adjacent values is 5 in ascending order, for example, -100, -95, -90, and -85.
record_agc	String	Recording AGC. Options: Disabled. Enabled: The value ranges from 4,000 to 32,000. From 10,000 on, the interval between two adjacent values is 1,000 in ascending order, for example, 4,000, 6,000, 8,000, 10,000, 11,000, 12,000 and 13,000.
record_crc	String	Recording CRC. Options: Disable CRC Enable CRC
record_device_mode	String	Recording device mode. Options: Record Device In Shared Mode Record Device In Exclusive Mode
record_delay_threshold	String	Recording delay threshold. The value ranges from 160 to 2,500. The values less than 400 are in ascending order with an interval of 40, and the values between 400 and 1,000 are in ascending order with an interval of 50. For example, the values can be as follows: 2,500, 2,000, 1,800, 1,500, 1,200, 1,000, 950, 900, 850.
record_amplitude_threshold	String	Recording amplitude threshold. The values can be: 2,048, 4,096, 5,120, 6,144, 7,168, 8,192.

Table 4-1984 client

Parameter	Type	Description
automatic_reconnection_interval	Integer	Automatic reconnection interval, in second. The value ranges from 1 to 50. Default: 5
session_persistence_time	Integer	Session persistence duration, in second. The value ranges from 0 to 180. Default: 180

Parameter	Type	Description
autoclose_monitor_after_locked	Boolean	Automatic monitor shutdown after screen locking. Options: false : disable; true : enable
autoclose_monitor_options	autoclose_monitor_options object	Options for automatic monitor shutdown.
forbid_screen_capture	Boolean	Whether to enable screen capture prevention. Options: false : disable; true : enable
client_machine_join_domain	Boolean	Whether to verify the domain of a terminal. false : disable; true : enable
client_type	client_type object	Terminal type login control.

Table 4-1985 autoclose_monitor_options

Parameter	Type	Description
autoclose_monitor_wait_time	Integer	Time before automatic monitor shutdown, in second. The value ranges from 10 to 600,000. Default: 300

Table 4-1986 client_type

Parameter	Type	Description
client_type_limit	Boolean	Whether to enable terminal type login control. false : disable; true : enable
options	options object	Options for terminal type login control.

Table 4-1987 options

Parameter	Type	Description
sc_type_window	Boolean	Whether to select the Windows client. Options: false : not selected true : selected
sc_type_mac	Boolean	Whether to select the macOS client. Options: false : not selected true : selected
sc_type_android	Boolean	Whether to select the Android client. Options: false : not selected true : selected
sc_type_linux	Boolean	Whether to select the Linux client. Options: false : not selected true : selected
sc_type_h5	Boolean	Whether to select the web client. Options: false : not selected true : selected
sc_type_ios	Boolean	Whether to select the iOS client. Options: false : not selected true : selected
sc_type_harmony_os	Boolean	Whether to select the HarmonyOS client. Options: false : not selected true : selected
tc_type_all	Boolean	Whether to select all hardware terminals. Options: false : not selected true : selected

Table 4-1988 display

Parameter	Type	Description
display_level	String	Display level. Options: LEVEL 1 LEVEL 2 LEVEL 3 LEVEL 4 (default/recommended) LEVEL 5
options	options object	Display level options.
rendering_acceleration_enable	Boolean	Whether to enable rendering acceleration. Options: false : disable; true : enable
rendering_acceleration_options	rendering_acceleration_options object	Rendering acceleration options.
adaptive_bitrate_control_enable	Boolean	Whether to enable adaptive bitrate. Options: false : disable; true : enable
adaptive_bitrate_control_options	adaptive_bitrate_control_options object	Adaptive bitrate options.
video_card_memory_size	Integer	GPU card cache (MB). The value ranges from 0 to 64. Default: 64
configuration1_enable	Boolean	Whether to enable configuration item 1. Options: false : disable; true : enable
driver_delegation_mode_enable	Boolean	Whether to enable driver delegation. Options: false : disable; true : enable
driver_delegation_latency	Integer	Driver delegation latency (x 30 ms). The value ranges from 1 to 100. Default: 80
video_latency	Integer	Driver delegation video latency (x 30 ms). The value ranges from 1 to 100. Default: 80

Parameter	Type	Description
change_resolution_vm	Boolean	Whether to enable resolution change. Options: false : disable; true : enable
application_recognition	String	Application recognition. A maximum of 1,024 characters are allowed.
duplicate_display_enable	Boolean	Duplicate display. Options: false : disable; true : enable
default_mapping_order	String	Default screen mapping sequence. Default: 1, 2, 3, 4
duplicate_display_mode	String	Duplicate display mode. Options: One-to-One : Only one channel is supported. One-to-Many : Multiple channels are supported.

Table 4-1989 options

Parameter	Type	Description
display_bandwidth	Integer	Bandwidth (kbit/s). The value ranges from 256 to 25,000. Default: 20,000
frame_rate	Integer	Frame rate (FPS). The value ranges from 1 to 60. Default: 25
video_frame_rate	Integer	Video frame rate (FPS). The value ranges from 1 to 60. Default: 30
min_image_cache	Integer	Minimum capacity for image cache (MB). The value ranges from 0 to 300. Default: 200
smoothing_factor	Integer	Lossy compression recognition threshold. The value ranges from 0 to 255. Default: 60
lossless_compression_mode	String	Lossless compression. Options: Basic Compression Deep Compression
deep_compression_options	deep_compression_options object	Deep compression options.

Parameter	Type	Description
lossy_compression_quality	Integer	Lossy compression quality. The value ranges from 20 to 100. Default: 85
color_enhancement_enable	Boolean	Whether to enable color enhancement for office work. Options: false : disable; true : enable
quality_bandwidth_first	String	Quality/Bandwidth first. Options: Quality First Bandwidth First
video_bit_rate_options	video_bit_rate_options object	Video bitrate options.
peak_video_bit_rate	Integer	Peak video bitrate (kbit/s). The value ranges from 256 to 100,000. Default: 18,000
video_quality_options	video_quality_options object	Video quality options.
gop_size	Integer	GOP size. The value ranges from 0 to 65535. Default: 100
encoding_preset	String	Encoding preset. Options: Preset 1 Preset 2 Preset 3 Preset 4 Preset 5 Preset 6 Preset 7

Table 4-1990 deep_compression_options

Parameter	Type	Description
deep_compression_level	String	Deep compression level. Options: Compression grade 0 Compression grade 1 Compression grade 2 Compression grade 3 Compression grade 4 Compression grade 5 Compression grade 6 Compression grade 7 Compression grade 8 Compression grade 9

Table 4-1991 video_bit_rate_options

Parameter	Type	Description
average_video_bit_rate	Integer	Average video bitrate (kbit/s). The value ranges from 256 to 100,000. Default: 18,000

Table 4-1992 video_quality_options

Parameter	Type	Description
average_video_quality	Integer	Average video quality. The value ranges from 5 to 59. Default: 15
lowest_video_quality	Integer	Lowest video quality. The value ranges from 5 to 69. Default: 25
highest_video_quality	Integer	Highest video quality. The value ranges from 1 to 59. Default: 7

Table 4-1993 rendering_acceleration_options

Parameter	Type	Description
video_acceleration_enhancement_enable	Boolean	Whether to enable video acceleration enhancement. Options: false : disable; true : enable

Parameter	Type	Description
video_optimization_enable	Boolean	Whether to enable video scene optimization. Options: false : disable; true : enable
gpu_color_optimization_enable	Boolean	Whether to enable GPU color optimization. Options: false : disable; true : enable
video_recognition_threshold	Integer	Video recognition threshold. The value ranges from 0 to 500. Default: 10
frame_rate_statistical_length	Integer	Frame rate statistical length. The value ranges from 2 to 100. Default: 4
image_quality_threshold	Integer	Image quality threshold. The value ranges from 0 to 100. Default: 0
refresh_frequency_threshold	Integer	Refresh frequency threshold. The value ranges from 1 to 100. Default: 3
exiting_video_area_threshold	Integer	Threshold of exiting the video area. The value ranges from 0 to 100. Default: 8
min_video_width	Integer	Minimum video width. The value ranges from 0 to 1,280. Default: 191
min_video_length	Integer	Minimum video height. The value ranges from 0 to 1,280. Default: 191
single_frame_natural_percentage	String	Threshold of the single-frame natural image block percentage. The value ranges from 0.000001 to 1. Default: 0.3
cyclical_natural_images_number	Integer	Threshold of cyclical natural image quantity percentage. The value ranges from 0 to 100. Default: 2
non_natural_image_percentage	String	Threshold of the non-natural image area percentage. The value ranges from 0.000001 to 1. Default: 0.85
non_natural_images_number	Integer	Threshold of non-natural image quantity percentage. The value ranges from 0 to 100. Default: 25

Table 4-1994 adaptive_bitrate_control_options

Parameter	Type	Description
peak_bandwidth_suppression_enable	Boolean	Whether to enable peak bandwidth suppression. Options: false : disable; true : enable
expected_average_network_latency	Integer	Expected average network latency, in millisecond. The value ranges from 1 to 2,000. Default: 160
network_latency_threshold1	Integer	Network latency threshold 1 (ms). The value ranges from 1 to 2,000. Default: 160
network_latency_threshold2	Integer	Network latency threshold 2 (ms). The value ranges from 1 to 2,000. Default: 300
min_dynamic_frame_rate	Integer	Minimum dynamic frame rate (FPS). The value ranges from 1 to 60. Default: 17
min_dynamic_frame_rate_lv1	Integer	Minimum dynamic frame rate level 1 (FPS). The value ranges from 1 to 60. Default: 17
min_dynamic_frame_rate_lv2	Integer	Minimum dynamic frame rate level 2 (FPS). The value ranges from 1 to 60. Default: 10
rtt_threshold	Integer	Frame rate control parameter 1. The value ranges from 0 to 1,000. Default: 20
min_add_framerate	Integer	Frame rate control parameter 2. The value ranges from 0 to 120. Default: 8
max_add_framerate	Integer	Frame rate control parameter 3. The value ranges from 0 to 120. Default: 20
sub_framerate	Integer	Frame rate control parameter 4. The value ranges from 0 to 120. Default: 25
adaptive_bandwidth_lower_limit	Integer	Adaptive bandwidth lower limit, in kbit/s. The value ranges from 100 to 20,000. Default: 500
adaptive_compression_quality_lower_limit	Integer	Lower limit of adaptive lossy compression quality. The value ranges from 1 to 100. Default: 60

Parameter	Type	Description
adaptive_compression_quality_upper_limit	Integer	Upper limit of adaptive lossy compression quality. The value ranges from 1 to 100. Default: 85
adaptive_compression_quality_increase_limit	Integer	Increase limit of adaptive lossy compression quality. The value ranges from 1 to 100. Default: 5
adaptive_compression_quality_decrease_limit	Integer	Decrease limit of adaptive lossy compression quality. The value ranges from 1 to 100. Default: 10
adaptive_average_quality_lower_limit	Integer	Lower limit of adaptive average video quality. The value ranges from 5 to 50. Default: 15
adaptive_average_quality_upper_limit	Integer	Upper limit of adaptive average video quality. The value ranges from 5 to 50. Default: 25
adaptive_average_quality_increase_limit	Integer	Increase limit of adaptive average video quality. The value ranges from 1 to 50. Default: 3
adaptive_average_quality_decrease_limit	Integer	Decrease limit of adaptive average video quality. The value ranges from 1 to 50. Default: 1
adaptive_min_quality_lower_limit	Integer	Lower limit of adaptive minimum video quality. The value ranges from 5 to 69. Default: 25
adaptive_min_quality_upper_limit	Integer	Upper limit of adaptive minimum video quality. The value ranges from 5 to 69. Default: 30
adaptive_min_quality_increase_limit	Integer	Increase limit of adaptive minimum video quality. The value ranges from 1 to 50. Default: 3
adaptive_min_quality_decrease_limit	Integer	Decrease limit of adaptive minimum video quality. The value ranges from 1 to 50. Default: 1

Table 4-1995 file_and_clipboard

Parameter	Type	Description
file_redirection	file_redirection object	File redirection.

Parameter	Type	Description
clip_length_limit_f_lag_c2s	Boolean	Clipboard length.
clip_length_limit_c2s	Integer	Client clipboard length.
clip_length_limit_f_lag_s2c	Boolean	Clipboard length.
clip_length_limit_s2c	Integer	Client clipboard length.
fd_mobile_client_redirect_enable	Boolean	Whether to enable mobile client file redirection. Options: false : disable; true : enable
clipboard_redirection	String	Clipboard redirection. Options: DISABLED (default) SERVER_TO_CLIENT_ENABLED (from the server to the client) CLIENT_TO_SERVER_ENABLED (from the client to the server) TWO_WAY_ENABLED (two-way)
clipboard_redirection_options	clipboard_redirection_options object	Clipboard redirection options.

Table 4-1996 file_redirection

Parameter	Type	Description
redirection_mode	String	File redirection. Options: DISABLED (default) READ_ONLY READ_AND_WRITE
options	options object	File redirection options.
vm_send_file_client	Boolean	Whether to enable the function of sending files from the VM to the client. Options: false : disable; true : enable
redirection_send_file_options	redirection_send_file_options object	Options for both redirection and file sending.

Table 4-1997 options

Parameter	Type	Description
fluid_control_switch_enable	Boolean	Whether to enable rate limit. Options: false : disable; true : enable
fluid_control_options	fluid_control_options object	Rate limit options.
compression_switch_enable	Boolean	Whether to enable compression. Options: false : disable; true : enable
compression_switch_options	compression_switch_options object	Compression options.
linux_file_size_supported_enable	Boolean	Whether to enable the function of setting the file size in Linux. Options: false : disable; true : enable
linux_file_size_supported_options	linux_file_size_supported_options object	Options for setting the file size in Linux.
linux_root_mount_switch_enable	Boolean	Whether to enable root directory mount in Linux. Options: false : disable; true : enable
linux_root_dir_list	String	Mount path of the Linux root directory. Default: \var\log
linux_file_mount_path	String	Mount path of the Linux file system. Default: \media\Volumes\swdb\mnt\home\storage\tmp\run\media
linux_fixed_drive_file_system_format	String	Linux fixed driver file system format.
linux_removable_drive_file_system_format	String	Linux removable driver file system format. Default: vfat ntfs msdos fuseblk sdcardfs exfat fuse.fdir lifs
linux_cdrom_drive_file_system_format	String	Linux CD-ROM driver file system format. Default: cd9660 iso9660 udf

Parameter	Type	Description
linux_network_drive_file_system_format	String	Linux network driver file system format. Default: smbfs afpfs cifs
path_separator	String	Path separator. Default:
fixed_drive_enable	Boolean	Whether to enable fixed drivers (such as local disks). Options: false : disable; true : enable
removable_drive_enable	Boolean	Whether to enable removable drivers (such as USB flash drives). Options: false : disable; true : enable
cd_rom_drive_enable	Boolean	Whether to enable CD-ROM drivers. Options: false : disable; true : enable
network_drive_enable	Boolean	Whether to enable network drivers. Options: false : disable; true : enable

Table 4-1998 fluid_control_options

Parameter	Type	Description
good_network_latency	Integer	Good network latency threshold (ms). The value ranges from 1 to 1,000. Default: 30
normal_network_latency	Integer	Normal network latency threshold (ms). The value ranges from 1 to 1,000. Default: 70
poor_network_latency	Integer	Poor network latency threshold (ms). The value ranges from 1 to 1,000. Default: 100
reducing_step	Integer	Reducing step (KB). The value ranges from 1 to 100. Default: 20
slow_increasing_step	Integer	Slow increasing step (KB). The value ranges from 1 to 100. Default: 10

Parameter	Type	Description
quick_increasing_step	Integer	Quick increasing step (KB). The value ranges from 1 to 100. Default: 20
start_speed	Integer	Initial transmission speed (KB/s). The value ranges from 1 to 10,240. Default: 1,024
test_block_size	Integer	Speed test block size (KB). The value ranges from 64 to 1,024. Default: 64
test_time_gap	Integer	Speed test block interval (ms). The value ranges from 1,000 to 100,000. Default: 10,000

Table 4-1999 compression_switch_options

Parameter	Type	Description
compression_threshold	Integer	Compression threshold (byte). The value ranges from 0 to 10,240. Default: 512
minimum_compression_rate	Integer	Minimum compression rate. The value ranges from 0 to 1,000. Default: 900

Table 4-2000 linux_file_size_supported_options

Parameter	Type	Description
linux_file_size_supported_threshold	Integer	File size threshold in Linux (byte). The value ranges from 0 to 4,096. Default: 100

Table 4-2001 redirection_send_file_options

Parameter	Type	Description
read_write_speed	Integer	Read/Write speed (kbit/s). The value ranges from 0 to 2147483647. Default: 0

Table 4-2002 clipboard_redirection_options

Parameter	Type	Description
rich_text_redirection_enable	Boolean	Whether to enable clipboard rich text redirection. Options: false : disable; true : enable
clipboard_file_redirection_enable	Boolean	Whether to enable clipboard file redirection. Options: false : disable; true : enable

Table 4-2003 Session

Parameter	Type	Description
vdi	Vdi object	VDI.
self_help_console	Boolean	Whether to enable preemption login to the self-help console. Options: false : disable; true : enable
disconnect_on_lock_flag	Boolean	Whether to disconnect after the screen is locked.
auto_lock_start_time	String	Start time when the lock takes effect. The format is hh:mm:ss.
auto_lock_end_time	String	Start time when the lock takes effect. The format is hh:mm:ss.

Table 4-2004 Vdi

Parameter	Type	Description
auto_lock_enable	Boolean	Whether to enable automatic screen locking. Options: false : disable; true : enable
auto_lock_options	AutoLockOptions object	Options available after automatic screen locking is enabled.
disconnect_logout_enable	Integer	Whether to enable automatic logout upon disconnection. Options: 0 : disable; 1 : enable
disconnect_logout_options	DisconnectLogoutOptions object	Options available after automatic logout upon disconnection is enabled.

Parameter	Type	Description
disconnect_hibernate_enable	Boolean	Whether to enable automatic logout upon disconnection. Options: 0 : disable; 1 : enable
disconnect_hibernate_options	disconnect_hibernate_options object	Options for hibernation upon disconnection.
no_operation_hibernate_enable	Boolean	Whether to enable automatic logout upon disconnection. Options: 0 : disable; 1 : enable
no_operation_hibernate_options	no_operation_hibernate_options object	Do not select the hibernation option.

Table 4-2005 AutoLockOptions

Parameter	Type	Description
auto_lock_minutes	Integer	Time before screen locking, in minute. The value ranges from 3 to 86,400. Default: 10
auto_disconnect	String	Automatic disconnection or logout. Options: AUTO_DISCONNECT (automatic disconnection); AUTO_LOGOUT (automatic logout); DISABLED (disabled); AUTO_RESTART (default, automatic restart); AUTO_STOP (automatic shutdown); HIBERNATE (hibernation)
options	AutoDisconnectOrLogoutControlOptions object	Options available after automatic disconnection or automatic logout is enabled.

Table 4-2006 AutoDisconnectOrLogoutControlOptions

Parameter	Type	Description
auto_disconnect_minutes	Integer	Time before disconnection or logout, in minute. The value ranges from 1 to 86,400. Default: 1,440

Table 4-2007 DisconnectLogoutOptions

Parameter	Type	Description
disconnect_logout_minutes	Integer	Time before automatic logout upon disconnection, in minute. The value ranges from 3 to 86,400. Default: 10

Table 4-2008 disconnect_hibernate_options

Parameter	Type	Description
disconnect_hibernate_minutes	Integer	Hibernation duration upon disconnection.

Table 4-2009 no_operation_hibernate_options

Parameter	Type	Description
no_operation_hibernate_minutes	Integer	Policy group ID.

Table 4-2010 VirtualChannel

Parameter	Type	Description
virtual_channel_control_enable	Boolean	Whether to enable the virtual channel policy. Options: false : disable; true : enable
options	VirtualChannelOptions object	Virtual channel policy options.

Table 4-2011 VirtualChannelOptions

Parameter	Type	Description
custom_virtual_channel_name	String	Custom registered virtual channel name. Currently, only ASCII characters are supported. The value can contain a maximum of 65,535 characters.
virtual_channel_plugin_details	String	Virtual channel download details (Base64-encoded). Before encryption, only ASCII characters are supported. The value can contain a maximum of 65,535 characters.

Parameter	Type	Description
third_party_plugin_name	String	Third-party plug-in name. The value can contain a maximum of 65,535 characters.

Table 4-2012 Watermark

Parameter	Type	Description
watermark_enable	Boolean	Indicates whether to enable the watermark policy. Options: false : disable; true : enable
options	WatermarkOptions object	Watermark policy options.

Table 4-2013 WatermarkOptions

Parameter	Type	Description
show_style	String	Display mode. Options: FIXED (fixed position); RANDOM (random motion)
color	String	Color. Format: RRGGBB . Default: 2a2a2a
font_size	Integer	Font size. The value ranges from 1 to 200. Default: 30
opacity_setting	String	Opacity (%). The value ranges from 0 to 100. Default: 12.5
content_item_count	Integer	Number of watermarks. The value ranges from 1 to 30. Default: 1
display_format	String	Watermark content display format.
lean	Integer	Tilt. The value ranges from -90 to 90. Default: -45
content_customized	String	Custom content, which cannot contain special characters such as >.
content_color	String	Content color.
watermark_security_access	Boolean	Whether to enable the security-first mode.
user_extend_info_switch	Boolean	Whether to enable extended user information. false : disable; true : enable

Parameter	Type	Description
user_extend_info	String	Extended user information.

Table 4-2014 keyboard_mouse

Parameter	Type	Description
mouse_feedback	String	VM mouse device feedback. Options: SELFADAPTION : adaptive mouse device feedback FORCE : forcible mouse device feedback CLOSE : no mouse device feedback
mouse_simulation_mode	String	VM mouse device simulation mode. Options: ABSOLUTE_POSITION : absolute position simulation RELATIVE_POSITION : relative position simulation
external_cursor_feedback	Boolean	Whether to enable VM external cursor feedback. Options: false : disable; true : enable
selfhelp_console_enable	Boolean	Whether to enable preemption login to the self-help console. Options: false : disable; true : enable
client_mouse_send_interval	Integer	Interval for sending mouse device operations on the client. The value ranges from 1 to 30. Default: 30
windows_client_keyboard_mode	String	Windows client keyboard mode. Options: GLOBAL : global mode for Windows client keyboards (default) WINDOW : windowed mode for for Windows client keyboards

Parameter	Type	Description
windows_client_mouse_mode	String	Windows client mouse device mode. Options: GLOBAL : global mode for Windows client mouse devices WINDOW : windowed mode for Windows client mouse devices (default)
linux_client_keyboard_mode	String	Linux client keyboard mode. Options: EVENT : event mode for Linux client keyboards (default) GRAPH : graphics mode for Linux client keyboards
linux_client_mouse_mode	String	Linux client mouse device mode. Options: EVENT : event mode for Linux client mouse devices (default) GRAPH : graphics mode for Linux client mouse devices
special_keyboard	Boolean	Special keyboard. Options: false : disable; true : enable
joy_stick_flag	Boolean	Joystick. Options: false : disable; true : enable

Table 4-2015 seamless

Parameter	Type	Description
seamless_enable	Boolean	Whether to enable audio/video bypass. Options: false : disable; true : enable
options	options object	General audio/video settings.

Table 4-2016 options

Parameter	Type	Description
seamless_apply_path	String	Software path. A maximum of 1,000 characters are allowed.

Table 4-2017 personalized_data_mgmt

Parameter	Type	Description
personalized_data_mgmt_path	String	Personalized data management path.
user_data_roaming_enable	Boolean	User data roaming.
user_data_roaming_options	user_data_roaming_options object	User data roaming options.
user_folder_redirection_enable	Boolean	Enables user folder redirection.
user_folder_redirection_options	user_folder_redirection_options object	User folder redirection options.
logoff_delete_user_configuration	Boolean	Enables user folder redirection.
network_drive_mapping_enable	Boolean	Enables user folder redirection.
network_drive_mapping_options	network_drive_mapping_options object	Network driver mapping options.

Table 4-2018 user_data_roaming_options

Parameter	Type	Description
profile_streaming_enable	Boolean	Whether to enable profile streaming.
roamed_files_local_path	String	Local path of roamed files.
exclude_folders_path	String	Path of an excluded folder.
roaming_registry_method	String	Path of an excluded folder.

Parameter	Type	Description
roaming_registry_path	String	Path of roaming registration.

Table 4-2019 user_folder_redirection_options

Parameter	Type	Description
restore_local_directories_enable	Boolean	Enables the restoration of local directories.
appData_roaming_enable	Boolean	Enables application data roaming.
redirec_desktop	Boolean	Desktop redirection.
redirec_start_menu	Boolean	Start menu.
redirec_documents	Boolean	Document.
redirec_pictures	Boolean	Photo.
redirec_music	Boolean	Music.
redirec_videos	Boolean	Audio recording.
redirec_favorites	Boolean	Favorite.
redirec_contacts	Boolean	Audio recording.
redirec_downloads	Boolean	Download.
redirec_links	Boolean	Link
redirec_searches	Boolean	Search.
redirec_saved_games	Boolean	Game storage.

Table 4-2020 network_drive_mapping_options

Parameter	Type	Description
network_drive_mapping_path	String	Network drive mapping path.
drive_letter	String	Path of an excluded folder.

Table 4-2021 custom

Parameter	Type	Description
custom_configuration1_enable	Boolean	Whether to enable custom configuration.
options	options object	General audio/video settings.

Table 4-2022 options

Parameter	Type	Description
custom_configuration1_rule	String	Custom configuration rule.

Table 4-2023 record_audit

Parameter	Type	Description
enable	Boolean	Whether to enable screen recording audit. Options: false : disable; true : enable
rules	rules object	Screen recording rules.
storage_type	String	Storage type. Options: OBS : OBS bucket SFTP : SFTP interconnection
obs_bucket_source	String	OBS bucket source. Options: AUTO_CREATE : automatically created CREATED : created
obs_bucket_name	String	OBS bucket name
retention_duration	Integer	Retention period of a screen recording file, in days. The value ranges from 1 to 180. 0 indicates that the file is retained permanently.

Table 4-2024 rules

Parameter	Type	Description
rule	RecordAuditRule object	Rule.

Table 4-2025 RecordAuditRule

Parameter	Type	Description
record_type	String	Recording type. Options: whole : continuous screen recording interval : interval screen recording userOperations : screen recording by users sessionMonitoring : screen recording of the session lifecycle
interval_record_start_time	String	Start time of interval-based screen recording. This parameter is valid only when interval is used. The format is hh:mm.
interval_record_end_time	String	End time of interval-based screen recording. This parameter is valid only when interval is used. The format is hh:mm.
op_type	String	Operation triggering type. This parameter is valid only when userOperations is used. Options: input : Screen recording is started once the user enters content. filecopy : Screen recording is started once the user copies a file.
audio_record	Boolean	Whether to enable audio recording. Options: false : disable; true : enable
fps	String	Recording frame rate. The value can be 2, 5, 10, or 15 .
duration	String	Duration of a single video recording file, in minutes. The value can be 10, 20, 30, or 60 .
resolution	String	Resolution settings. The value can be 720P, 1080P, or original .
event_enable	Boolean	Whether to enable key event audit. Options: false : disabled true : enabled
file_suffix	String	File name extension. Use vertical bars () to separate multiple file name extensions.

Parameter	Type	Description
regit_paths	String	Registry path. Use vertical bars () to separate multiple registry paths.
app_filter_type	String	Application filtering type. The value can be black (blacklist) or white (whitelist).
app_white_list	String	Enables or disables the application whitelist. If it is enabled, only the whitelisted applications are monitored.
app_black_list	String	Enables or disables the application blacklist. Blacklisted applications will be ignored.

Table 4-2026 Target

Parameter	Type	Description
target_id	String	Object ID.
target_name	String	Object name. The value can contain a maximum of 55 characters.

Parameter	Type	Description
target_type	String	Object type. <ul style="list-style-type: none"> • INSTANCE: desktops • target_id: desktop SIDs • target_name: desktop names • USER: users • target_id: user IDs • target_name: usernames • USERGROUP: user groups • target_id: user group IDs • target_name: user group names • CLIENTIP: terminal IP addresses • target_id: terminal IP addresses • target_name: terminal IP addresses • OU: organization units • target_id: OU IDs • target_name: OU names • DESKTOPSPOOL: desktop pools • target_id: desktop pool IDs • target_name: desktop pool names • ALL: all desktops • target_id: default-apply-all-targets • target_name: All-Targets

Status code: 400**Table 4-2027** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401

Table 4-2028 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-2029** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-2030** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 405

Table 4-2031 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-2032** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 503**Table 4-2033** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
GET /v2/29dfe82ada564ac2b927e1ff036d9a9b/policy-groups/detail
```

Example Responses

Status code: 200

Response to the request for querying details about all policy groups.

```
{
  "policy_groups": [ {
    "policy_group_id": "string",
    "policy_group_name": "string",
    "priority": 1,
    "update_time": "string",
    "description": "string",
    "policies": {
      "peripherals": {
        "usb_custom_policy_debug": "string",
        "usb_port_redirection": {
          "usb_enable": true,
          "options": {
            "usb_image_enable": true,
            "usb_video_enable": true,
            "usb_printer_enable": true,
            "usb_storage_enable": false,
            "wireless_devices_enable": false,
            "network_devices_enable": false,
            "usb_smart_card_enable": true,
            "other_usb_devices_enable": false,
            "usb_redirection_customization_policy": "string",
            "usb_redirection_mode": "Common mode"
          }
        }
      },
      "device_redirection": {
        "printer_redirection": {
          "printer_enable": true,
          "options": {
            "mobile_printer_enable": false,
            "print_data_compression_mode": false,
            "sync_client_default_printer_enable": true,
            "universal_printer_driver": "Default"
          }
        }
      },
      "session_printer": {
        "session_printer_enable": false,
        "options": {
          "session_printer_customization_policy": "string"
        }
      },
      "camera_redirection": {
        "video_compress_enable": true,
        "options": {
          "camera_frame_rate": 15,
          "camera_max_width": 3000,
          "camera_max_height": 3000,
          "camera_compression_method": "H.264"
        }
      },
      "twain_redirection_enable": true,
      "image_compression_level": "medium",
      "hid_redirection": {
        "hid_redirection_enable": false,
        "options": {
          "hid_redirection_customization_policy": "string"
        }
      }
    }
  },
  "usb_device_common": {
    "pcsc_smart_card_enable": "Disable",
    "common_options": {
      "remove_smart_card_disconnect_enable": false
    }
  },
  "serial_port_redirection": {
    "serial_port_enable": false,
    "options": {

```

```

    "auto_connect_enable" : false
  }
},
"parallel_port_redirection" : {
  "parallel_port_enable" : false
},
"driver_interface_redirection" : {
  "api_redir_driver_list" : "string"
}
},
"audio" : {
  "audio_redirection_enable" : true,
  "play_volume" : "Do Not Set Volume",
  "play_volume_ratio" : "Do Not Set Volume Ratio",
  "record_volume" : "100",
  "record_volume_ratio" : "Do Not Set Volume Ratio",
  "audio_transmission_mode" : "Reliable Transmission",
  "play_redirection_enable" : true,
  "play_classification" : "Music Play",
  "play_quality" : "Middle",
  "play_denoising" : "Disable Denoising",
  "play_agc" : "Disable AGC",
  "play_crc" : "Disable CRC",
  "play_device_mode" : "Play Device In Shared Mode",
  "play_delay_threshold" : "240",
  "play_amplitude_threshold" : "4096",
  "play_prefill_data" : "Do Not Prefill Data",
  "record_redirection_enable" : true,
  "record_classification" : "Speech Call",
  "record_quality" : "Middle",
  "record_denoising" : "-25",
  "record_agc" : "Disable AGC",
  "record_crc" : "Disable CRC",
  "record_device_mode" : "Record Device In Shared Mode",
  "record_delay_threshold" : "200",
  "record_amplitude_threshold" : "4096"
},
"client" : {
  "automatic_reconnection_interval" : 5,
  "session_persistence_time" : 180,
  "autoclose_monitor_after_locked" : false,
  "autoclose_monitor_options" : {
    "autoclose_monitor_wait_time" : 300
  }
},
"forbid_screen_capture" : false,
"client_machine_join_domain" : true,
"client_type" : {
  "client_type_limit" : true,
  "options" : {
    "sc_type_window" : true,
    "sc_type_mac" : true,
    "sc_type_android" : true,
    "sc_type_linux" : true,
    "sc_type_h5" : true,
    "sc_type_ios" : true,
    "sc_type_harmony_os" : true,
    "tc_type_all" : true
  }
}
},
"display" : {
  "display_level" : "LEVEL4",
  "options" : {
    "display_bandwidth" : 20000,
    "frame_rate" : 25,
    "video_frame_rate" : 30,
    "min_image_cache" : 200,
    "smoothing_factor" : 60,
    "lossless_compression_mode" : "Basic Compression",

```

```

"deep_compression_options" : {
  "deep_compression_level" : "Compression grade 0"
},
"lossy_compression_quality" : 85,
"color_enhancement_enable" : false,
"quality_bandwidth_first" : "Quality First",
"video_bit_rate_options" : {
  "average_video_bit_rate" : 18000
},
"peak_video_bit_rate" : 18000,
"video_quality_options" : {
  "average_video_quality" : 15,
  "lowest_video_quality" : 25,
  "highest_video_quality" : 7
},
"gop_size" : 100,
"encoding_preset" : "Preset 1"
},
"rendering_acceleration_enable" : false,
"rendering_acceleration_options" : {
  "video_acceleration_enhancement_enable" : true,
  "video_optimization_enable" : false,
  "gpu_color_optimization_enable" : false,
  "video_recognition_threshold" : 10,
  "frame_rate_statistical_length" : 4,
  "image_quality_threshold" : 0,
  "refresh_frequency_threshold" : 3,
  "exiting_video_area_threshold" : 8,
  "min_video_width" : 191,
  "min_video_length" : 191,
  "single_frame_natural_percentage" : "0.3",
  "cyclical_natural_images_number" : 2,
  "non_natural_image_percentage" : "0.85",
  "non_natural_images_number" : 25
},
"adaptive_bitrate_control_enable" : false,
"adaptive_bitrate_control_options" : {
  "peak_bandwidth_suppression_enable" : false,
  "expected_average_network_latency" : 160,
  "network_latency_threshold1" : 160,
  "network_latency_threshold2" : 300,
  "min_dynamic_frame_rate" : 17,
  "min_dynamic_frame_rate_lv1" : 17,
  "min_dynamic_frame_rate_lv2" : 10,
  "rtt_threshold" : 20,
  "min_add_framerate" : 8,
  "max_add_framerate" : 20,
  "sub_framerate" : 25,
  "adaptive_bandwidth_lower_limit" : 500,
  "adaptive_compression_quality_lower_limit" : 60,
  "adaptive_compression_quality_upper_limit" : 85,
  "adaptive_compression_quality_increase_limit" : 5,
  "adaptive_compression_quality_decrease_limit" : 10,
  "adaptive_average_quality_lower_limit" : 15,
  "adaptive_average_quality_upper_limit" : 25,
  "adaptive_average_quality_increase_limit" : 3,
  "adaptive_average_quality_decrease_limit" : 1,
  "adaptive_min_quality_lower_limit" : 25,
  "adaptive_min_quality_upper_limit" : 30,
  "adaptive_min_quality_increase_limit" : 3,
  "adaptive_min_quality_decrease_limit" : 1
},
"video_card_memory_size" : 64,
"configuration1_enable" : false,
"driver_delegation_mode_enable" : false,
"driver_delegation_latency" : 80,
"video_latency" : 80,
"change_resolution_vm" : false,
"application_recognition" : "string",

```

```

"duplicate_display_enable" : false,
"default_mapping_order" : "1,2,3,4",
"duplicate_display_mode" : "One-to-One"
},
"file_and_clipboard" : {
"file_redirection" : {
"redirection_mode" : "DISABLED",
"options" : {
"fluid_control_switch_enable" : false,
"fluid_control_options" : {
"good_network_latency" : 30,
"normal_network_latency" : 70,
"poor_network_latency" : 100,
"reducing_step" : 20,
"slow_increasing_step" : 10,
"quick_increasing_step" : 20,
"start_speed" : 1024,
"test_block_size" : 64,
"test_time_gap" : 10000
},
"compression_switch_enable" : false,
"compression_switch_options" : {
"compression_threshold" : 512,
"minimum_compression_rate" : 900
},
"linux_file_size_supported_enable" : true,
"linux_file_size_supported_options" : {
"linux_file_size_supported_threshold" : 100
},
"linux_root_mount_switch_enable" : true,
"linux_root_dir_list" : "\\\var\\\\log",
"linux_file_mount_path" : "\\\media\\\\Volumes\\\\swdb\\\\mnt\\\\home\\\\storage\\\\tmp\\\\
run\\\\media",
"linux_fixed_drive_file_system_format" : "string",
"linux_removable_drive_file_system_format" : "vfat|ntfs|msdos|fuseblk|sdcardfs|exfat|fuse.fdir|lifs",
"linux_cdrom_drive_file_system_format" : "cd9660|iso9660|udf",
"linux_network_drive_file_system_format" : "smbfs|afpfs|cifs",
"path_separator" : "|",
"fixed_drive_enable" : true,
"removable_drive_enable" : true,
"cd_rom_drive_enable" : true,
"network_drive_enable" : true
},
"vm_send_file_client" : true,
"redirection_send_file_options" : {
"read_write_speed" : 0
}
},
"clip_length_limit_flag_c2s" : true,
"clip_length_limit_c2s" : 180,
"clip_length_limit_flag_s2c" : true,
"clip_length_limit_s2c" : 180,
"fd_mobile_client_redir_enable" : true,
"clipboard_redirection" : "DISABLED",
"clipboard_redirection_options" : {
"rich_text_redirection_enable" : true,
"clipboard_file_redirection_enable" : true
}
},
"session" : {
"vdi" : {
"auto_lock_enable" : true,
"auto_lock_options" : {
"auto_lock_minutes" : 10,
"auto_disconnect" : "DISABLED",
"options" : {
"auto_disconnect_minutes" : 1440
}
}
},
},
},

```



```

    "disconnect_logout_enable" : 0,
    "disconnect_logout_options" : {
      "disconnect_logout_minutes" : 10
    },
    "disconnect_hibernate_enable" : false,
    "disconnect_hibernate_options" : {
      "disconnect_hibernate_minutes" : 0
    },
    "no_operation_hibernate_enable" : false,
    "no_operation_hibernate_options" : {
      "no_operation_hibernate_minutes" : 0
    }
  },
  "self_help_console" : true,
  "disconnect_on_lock_flag" : false,
  "auto_lock_start_time" : "00:00:00",
  "auto_lock_end_time" : "23:59:59"
},
"virtual_channel" : {
  "virtual_channel_control_enable" : false,
  "options" : {
    "custom_virtual_channel_name" : "string",
    "virtual_channel_plugin_details" : "string",
    "third_party_plugin_name" : "string"
  }
},
"watermark" : {
  "watermark_enable" : false,
  "options" : {
    "show_style" : "RANDOM",
    "color" : "2a2a2a",
    "font_size" : 30,
    "opacity_setting" : "12.5",
    "content_item_count" : 1,
    "display_format" : "{\\AlignMode\\":\\left\\,\\DateTimeFormat\\":\\DT\\,\\DateFormat\\":\\yyyy-mm-dd
\\,\\TimeFormat\\":\\hh:mm:ss\\,\\RepeatCount\\":2,\\RepeatInterval\\":10,\\DisplayFormat\\":
{\\Content1\\":\\CustomContent\\,\\Interval1\\":\\n\\,\\Content2\\":\\UserName
\\,\\Interval2\\":\\4\\,\\Content3\\":\\DateTime\\}}",
    "lean" : -45,
    "content_customized" : "string",
    "content_color" : 522857002,
    "watermark_security_access" : false,
    "user_extend_info_switch" : false,
    "user_extend_info" : "string"
  }
},
"keyboard_mouse" : {
  "mouse_feedback" : "SELFADAPTION",
  "mouse_simulation_mode" : "ABSOLUTE_POSITION",
  "external_cursor_feedback" : false,
  "selfhelp_console_enable" : true,
  "client_mouse_send_interval" : 30,
  "windows_client_keyboard_mode" : "GLOBAL",
  "windows_client_mouse_mode" : "WINDOW",
  "linux_client_keyboard_mode" : "EVENT",
  "linux_client_mouse_mode" : "EVENT",
  "special_keyboard" : false,
  "joy_stick_flag" : false
},
"seamless" : {
  "seamless_enable" : false,
  "options" : {
    "seamless_apply_path" : "string"
  }
},
"personalized_data_mgmt" : {
  "personalized_data_mgmt_path" : "string",
  "user_data_roaming_enable" : false,
  "user_data_roaming_options" : {

```

```

    "profile_streaming_enable" : false,
    "roamed_files_local_path" : "string",
    "exclude_folders_path" : "string",
    "roaming_registry_method" : "string",
    "roaming_registry_path" : "string"
  },
  "user_folder_redirection_enable" : false,
  "user_folder_redirection_options" : {
    "restore_local_directories_enable" : false,
    "appData_roaming_enable" : false,
    "redirec_desktop" : false,
    "redirec_start_menu" : false,
    "redirec_documents" : false,
    "redirec_pictures" : false,
    "redirec_music" : false,
    "redirec_videos" : false,
    "redirec_favorites" : false,
    "redirec_contacts" : false,
    "redirec_downloads" : false,
    "redirec_links" : false,
    "redirec_searches" : false,
    "redirec_saved_games" : false
  },
  "logoff_delete_user_configuration" : false,
  "network_drive_mapping_enable" : false,
  "network_drive_mapping_options" : {
    "network_drive_mapping_path" : "string",
    "drive_letter" : "string"
  }
},
"custom" : {
  "custom_configuration1_enable" : false,
  "options" : {
    "custom_configuration1_rule" : "string"
  }
},
"record_audit" : {
  "enable" : true,
  "rules" : {
    "rule" : {
      "record_type" : "string",
      "interval_record_start_time" : "string",
      "interval_record_end_time" : "string",
      "op_type" : "string",
      "audio_record" : true,
      "fps" : 0,
      "duration" : 0,
      "resolution" : "string"
    }
  }
},
"targets" : [ {
  "target_id" : "string",
  "target_name" : "string",
  "target_type" : "string"
} ],
"total_count" : 0
}

```

Status Codes

Status Code	Description
200	Response to the request for querying details about all policy groups.

Status Code	Description
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.14.11 Querying Initial Policy Items

Function

Queries initial policy items.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/policy-groups/original-policies

Table 4-2034 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-2035 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body, for example, application/json .

Response Parameters

Status code: 200

Table 4-2036 Response body parameters

Parameter	Type	Description
policies	Policies object	Policy class.

Table 4-2037 Policies

Parameter	Type	Description
peripherals	peripherals object	Peripheral.
audio	audio object	Audio.
client	client object	Client.
display	display object	Display.
file_and_clipboard	file_and_clipboard object	Files and clipboards.
session	Session object	Sessions.
virtual_channel	VirtualChannel object	Virtual channels.
watermark	Watermark object	Watermarking.

Parameter	Type	Description
keyboard_mouse	keyboard_mouse object	Keyboards and mouse devices.
seamless	seamless object	Audio/Video bypass.
personalized_data_mgmt	personalized_data_mgmt object	Personalized data management.
custom	custom object	Custom policy.
record_audit	record_audit object	Screen recording audit.

Table 4-2038 peripherals

Parameter	Type	Description
usb_custom_policy_debug	String	Device debugging policy.
usb_port_redirection	usb_port_redirection object	USB port redirection.
device_redirection	device_redirection object	Device redirection.
usb_device_common	usb_device_common object	USB and device smartcard options.
serial_port_redirection	serial_port_redirection object	Serial port redirection.
parallel_port_redirection	parallel_port_redirection object	Parallel port redirection.
driver_interface_redirection	driver_interface_redirection object	Driver interface redirection.

Table 4-2039 usb_port_redirection

Parameter	Type	Description
usb_enable	Boolean	Whether to enable USB port redirection. Options: false : disable; true : enable
options	options object	USB port redirection options.

Table 4-2040 options

Parameter	Type	Description
usb_image_enable	Boolean	Whether to enable image devices, such as scanners. Options: false : disable; true : enable
usb_video_enable	Boolean	Whether to enable video devices, such as cameras. Options: false : disable; true : enable
usb_printer_enable	Boolean	Whether to enable print devices, such as printers. Options: false : disable; true : enable
usb_storage_enable	Boolean	Whether to enable storage devices, such as USB flash drives. Options: false : disable; true : enable
wireless_devices_enable	Boolean	Whether to enable wireless devices, such as Bluetooth. Options: false : disable; true : enable
network_devices_enable	Boolean	Whether to enable network devices, such as wireless NICs. Options: false : disable; true : enable
usb_smart_card_enable	Boolean	Whether to enable smartcard devices, such as USB keys. Options: false : disable; true : enable
other_usb_devices_enable	Boolean	Whether to enable the redirection of other USB devices. Options: false : disable; true : enable
usb_redirection_customization_policy	String	Custom policy for USB port redirection. The value contains a maximum of 18,000 characters.

Parameter	Type	Description
usb_redirection_mode	String	USB redirection mode. Options: Classical mode Common mode

Table 4-2041 device_redirection

Parameter	Type	Description
printer_redirection	printer_redirection object	Printer redirection.
session_printer	session_printer object	Session printer.
camera_redirection	camera_redirection object	Camera redirection.
twain_redirection_enable	Boolean	Whether to enable TWAIN device redirection. Options: false : disable; true : enable
image_compression_level	String	Image compression level. Options: none low (highest speed) medium (medium speed) high (lowest speed) lossless low-loss medium-loss high-loss
hid_redirection	hid_redirection object	Human interface device (HID) redirection.

Table 4-2042 printer_redirection

Parameter	Type	Description
printer_enable	Boolean	Whether to enable printer redirection. Options: false : disable; true : enable
options	options object	Printer redirection options.

Table 4-2043 options

Parameter	Type	Description
mobile_printer_enable	Boolean	Mobile client printer redirection. Options: false : disable; true : enable
print_data_compression_mode	Boolean	Whether to enable data compression. Options: false : disable; true : enable
sync_client_default_printer_enable	Boolean	Whether to enable default client printer synchronization. Options: false : disable; true : enable
universal_printer_driver	String	Universal printer driver. By default, choose Universal Printing PS for Linux clients and HDP XPSDrv Driver for Windows clients. Options: HDP XPSDrv Driver ; Universal Printing PCL 5 Universal Printing PCL 6 Universal Printing PS

Table 4-2044 session_printer

Parameter	Type	Description
session_printer_enable	Boolean	Whether to enable session printers. Options: false : disable; true : enable
options	options object	Session printer options.

Table 4-2045 options

Parameter	Type	Description
session_printer_customization_policy	String	Custom session printer policy. A maximum of 1,000 characters are allowed.

Table 4-2046 camera_redirection

Parameter	Type	Description
video_compress_enable	Boolean	Whether to enable camera redirection. Options: false : disable; true : enable
options	options object	Camera redirection options.

Table 4-2047 options

Parameter	Type	Description
camera_frame_rate	Integer	Camera frame rate (FPS). The value ranges from 1 to 30. Default: 15
camera_max_width	Integer	Camera maximum width (pixel). The value ranges from 1 to 9999. Default: 3000
camera_max_height	Integer	Camera maximum height (pixel). The value ranges from 1 to 9999. Default: 3000
camera_compression_method	String	Camera data compression method. The value is H.264 .

Table 4-2048 hid_redirection

Parameter	Type	Description
hid_redirection_enable	Boolean	Whether to enable HID redirection. Options: false : disable; true : enable
options	options object	HID options.

Table 4-2049 options

Parameter	Type	Description
hid_redirection_customization_policy	String	Custom HID redirection policy.

Table 4-2050 usb_device_common

Parameter	Type	Description
pcsc_smart_card_enable	String	Whether to enable PC/SC smartcard redirection. Options: Enable: enabled Closed: closed Disable: disabled
common_options	common_options object	Options for both USB devices and device smartcards.

Table 4-2051 common_options

Parameter	Type	Description
remove_smart_card_disconnect_enable	Boolean	Whether to enable smartcard removal to log out of user sessions. Options: false: disable; true: enable

Table 4-2052 serial_port_redirection

Parameter	Type	Description
serial_port_enable	Boolean	Whether to enable serial port redirection. Options: false: disable; true: enable
options	options object	Serial port redirection options.

Table 4-2053 options

Parameter	Type	Description
auto_connect_enable	Boolean	Whether to enable automatic connection to client serial ports. Options: false: disable; true: enable

Table 4-2054 parallel_port_redirection

Parameter	Type	Description
parallel_port_enable	Boolean	Whether to enable parallel port redirection. Options: false : disable; true : enable

Table 4-2055 driver_interface_redirection

Parameter	Type	Description
api_redir_driver_list	String	Custom drivers. Enter one or more driver file names or full paths of driver files installed on terminals. Separate file names or paths with semicolons (;). A maximum of 1,000 characters are allowed.

Table 4-2056 audio

Parameter	Type	Description
audio_redirection_enable	Boolean	Whether to enable audio redirection. Options: false : disable; true : enable
play_volume	String	Playback volume. If this parameter is not specified, the value is Do Not Set Volume . Volume setting. The value ranges from 10 to 100, and the interval between two adjacent values is 5 in ascending order, for example, 10, 15, 20, and 25.
play_volume_ratio	String	Playback volume ratio. Options: If this parameter is not specified, the value is Do Not Set Volume Ratio . Low Middle : medium High

Parameter	Type	Description
record_volume	String	Recording volume. If this parameter is not specified, the value is Do Not Set Volume . Volume setting. The value ranges from 10 to 100, and the interval between two adjacent values is 5 in ascending order, for example, 10, 15, 20, and 25.
record_volume_ratio	String	Recording volume ratio. Options: If this parameter is not specified, the value is Do Not Set Volume Ratio . Low Middle: medium High
audio_transmission_mode	String	Audio transmission mode. Options: Reliable Transmission Real Time Transmission
play_redirection_enable	Boolean	Whether to enable playback redirection. Options: false: disable; true: enable
play_classification	String	Playback scenario. Options: Lossless Speech Call Music Play Automatic Identification
play_quality	String	Playback quality. Options: Low Middle: medium High
play_denoising	String	Playback denoising. Options: Disabled. Enabled: The value ranges from -100 to -5, and the interval between two adjacent values is 5 in ascending order, for example, -100, -95, -90, and -85.

Parameter	Type	Description
play_agc	String	Playback AGC. Options: Disabled. Enabled: The value ranges from 4,000 to 32,000. From 10,000 on, the interval between two adjacent values is 1,000 in ascending order, for example, 4,000, 6,000, 8,000, 10,000, 11,000, 12,000 and 13,000.
play_crc	String	Playback CRC. Options: Disable CRC Enable CRC
play_device_mode	String	Playback device mode. Options: Play Device In Shared Mode Play Device In Exclusive Mode
play_delay_threshold	String	Playback delay threshold. The value ranges from 160 to 2,500. The values less than 400 are in ascending order with an interval of 40, and the values between 400 and 1,000 are in ascending order with an interval of 50. For example, the values can be as follows: 2,500, 2,000, 1,800, 1,500, 1,200, 1,000, 950, 900, 850.
play_amplitude_threshold	String	Playback amplitude threshold. The values can be: 2,048, 4,096, 5,120, 6,144, 7,168, 8,192.
play_prefill_data	String	Playback prefill data. Options: Do Not Prefill Data ; Prefill Data : The value ranges from 50 to 2,000. The values less than 250 are in an ascending order with an interval of 50, and the values between 250 and 500 are in an ascending order with an interval of 100. For example, the values can be as follows: 2,000, 1,500, 1,000, 500, 400, 300, 250.
record_redirection_enable	Boolean	Whether to enable recording redirection. Options: false : disable; true : enable

Parameter	Type	Description
record_classification	String	Recording scenario. Options: Lossless Speech Call Music Record Automatic Identification
record_quality	String	Recording quality. Options: Low Middle : medium High
record_denoising	String	Recording denoising. Options: Disabled. Enabled: The value ranges from -100 to -5, and the interval between two adjacent values is 5 in ascending order, for example, -100, -95, -90, and -85.
record_agc	String	Recording AGC. Options: Disabled. Enabled: The value ranges from 4,000 to 32,000. From 10,000 on, the interval between two adjacent values is 1,000 in ascending order, for example, 4,000, 6,000, 8,000, 10,000, 11,000, 12,000 and 13,000.
record_crc	String	Recording CRC. Options: Disable CRC Enable CRC
record_device_mode	String	Recording device mode. Options: Record Device In Shared Mode Record Device In Exclusive Mode
record_delay_threshold	String	Recording delay threshold. The value ranges from 160 to 2,500. The values less than 400 are in ascending order with an interval of 40, and the values between 400 and 1,000 are in ascending order with an interval of 50. For example, the values can be as follows: 2,500, 2,000, 1,800, 1,500, 1,200, 1,000, 950, 900, 850.
record_amplitude_threshold	String	Recording amplitude threshold. The values can be: 2,048, 4,096, 5,120, 6,144, 7,168, 8,192.

Table 4-2057 client

Parameter	Type	Description
automatic_reconnection_interval	Integer	Automatic reconnection interval, in second. The value ranges from 1 to 50. Default: 5
session_persistence_time	Integer	Session persistence duration, in second. The value ranges from 0 to 180. Default: 180
autoclose_monitor_after_locked	Boolean	Automatic monitor shutdown after screen locking. Options: false : disable; true : enable
autoclose_monitor_options	autoclose_monitor_options object	Options for automatic monitor shutdown.
forbid_screen_capture	Boolean	Whether to enable screen capture prevention. Options: false : disable; true : enable
client_machine_join_domain	Boolean	Whether to verify the domain of a terminal. false : disable; true : enable
client_type	client_type object	Terminal type login control.

Table 4-2058 autoclose_monitor_options

Parameter	Type	Description
autoclose_monitor_wait_time	Integer	Time before automatic monitor shutdown, in second. The value ranges from 10 to 600,000. Default: 300

Table 4-2059 client_type

Parameter	Type	Description
client_type_limit	Boolean	Whether to enable terminal type login control. false : disable; true : enable

Parameter	Type	Description
options	options object	Options for terminal type login control.

Table 4-2060 options

Parameter	Type	Description
sc_type_window	Boolean	Whether to select the Windows client. Options: false : not selected true : selected
sc_type_mac	Boolean	Whether to select the macOS client. Options: false : not selected true : selected
sc_type_android	Boolean	Whether to select the Android client. Options: false : not selected true : selected
sc_type_linux	Boolean	Whether to select the Linux client. Options: false : not selected true : selected
sc_type_h5	Boolean	Whether to select the web client. Options: false : not selected true : selected
sc_type_ios	Boolean	Whether to select the iOS client. Options: false : not selected true : selected
sc_type_harmony_os	Boolean	Whether to select the HarmonyOS client. Options: false : not selected true : selected
tc_type_all	Boolean	Whether to select all hardware terminals. Options: false : not selected true : selected

Table 4-2061 display

Parameter	Type	Description
display_level	String	Display level. Options: LEVEL 1 LEVEL 2 LEVEL 3 LEVEL 4 (default/recommended) LEVEL 5
options	options object	Display level options.
rendering_acceleration_enable	Boolean	Whether to enable rendering acceleration. Options: false : disable; true : enable
rendering_acceleration_options	rendering_acceleration_options object	Rendering acceleration options.
adaptive_bitrate_control_enable	Boolean	Whether to enable adaptive bitrate. Options: false : disable; true : enable
adaptive_bitrate_control_options	adaptive_bitrate_control_options object	Adaptive bitrate options.
video_card_memory_size	Integer	GPU card cache (MB). The value ranges from 0 to 64. Default: 64
configuration1_enable	Boolean	Whether to enable configuration item 1. Options: false : disable; true : enable
driver_delegation_mode_enable	Boolean	Whether to enable driver delegation. Options: false : disable; true : enable
driver_delegation_latency	Integer	Driver delegation latency (x 30 ms). The value ranges from 1 to 100. Default: 80
video_latency	Integer	Driver delegation video latency (x 30 ms). The value ranges from 1 to 100. Default: 80

Parameter	Type	Description
change_resolution_vm	Boolean	Whether to enable resolution change. Options: false : disable; true : enable
application_recognition	String	Application recognition. A maximum of 1,024 characters are allowed.
duplicate_display_enable	Boolean	Duplicate display. Options: false : disable; true : enable
default_mapping_order	String	Default screen mapping sequence. Default: 1, 2, 3, 4
duplicate_display_mode	String	Duplicate display mode. Options: One-to-One : Only one channel is supported. One-to-Many : Multiple channels are supported.

Table 4-2062 options

Parameter	Type	Description
display_bandwidth	Integer	Bandwidth (kbit/s). The value ranges from 256 to 25,000. Default: 20,000
frame_rate	Integer	Frame rate (FPS). The value ranges from 1 to 60. Default: 25
video_frame_rate	Integer	Video frame rate (FPS). The value ranges from 1 to 60. Default: 30
min_image_cache	Integer	Minimum capacity for image cache (MB). The value ranges from 0 to 300. Default: 200
smoothing_factor	Integer	Lossy compression recognition threshold. The value ranges from 0 to 255. Default: 60
lossless_compression_mode	String	Lossless compression. Options: Basic Compression Deep Compression
deep_compression_options	deep_compression_options object	Deep compression options.

Parameter	Type	Description
lossy_compression_quality	Integer	Lossy compression quality. The value ranges from 20 to 100. Default: 85
color_enhancement_enable	Boolean	Whether to enable color enhancement for office work. Options: false : disable; true : enable
quality_bandwidth_first	String	Quality/Bandwidth first. Options: Quality First Bandwidth First
video_bit_rate_options	video_bit_rate_options object	Video bitrate options.
peak_video_bit_rate	Integer	Peak video bitrate (kbit/s). The value ranges from 256 to 100,000. Default: 18,000
video_quality_options	video_quality_options object	Video quality options.
gop_size	Integer	GOP size. The value ranges from 0 to 65535. Default: 100
encoding_preset	String	Encoding preset. Options: Preset 1 Preset 2 Preset 3 Preset 4 Preset 5 Preset 6 Preset 7

Table 4-2063 deep_compression_options

Parameter	Type	Description
deep_compression_level	String	Deep compression level. Options: Compression grade 0 Compression grade 1 Compression grade 2 Compression grade 3 Compression grade 4 Compression grade 5 Compression grade 6 Compression grade 7 Compression grade 8 Compression grade 9

Table 4-2064 video_bit_rate_options

Parameter	Type	Description
average_video_bit_rate	Integer	Average video bitrate (kbit/s). The value ranges from 256 to 100,000. Default: 18,000

Table 4-2065 video_quality_options

Parameter	Type	Description
average_video_quality	Integer	Average video quality. The value ranges from 5 to 59. Default: 15
lowest_video_quality	Integer	Lowest video quality. The value ranges from 5 to 69. Default: 25
highest_video_quality	Integer	Highest video quality. The value ranges from 1 to 59. Default: 7

Table 4-2066 rendering_acceleration_options

Parameter	Type	Description
video_acceleration_enhancement_enable	Boolean	Whether to enable video acceleration enhancement. Options: false : disable; true : enable

Parameter	Type	Description
video_optimization_enable	Boolean	Whether to enable video scene optimization. Options: false : disable; true : enable
gpu_color_optimization_enable	Boolean	Whether to enable GPU color optimization. Options: false : disable; true : enable
video_recognition_threshold	Integer	Video recognition threshold. The value ranges from 0 to 500. Default: 10
frame_rate_statistical_length	Integer	Frame rate statistical length. The value ranges from 2 to 100. Default: 4
image_quality_threshold	Integer	Image quality threshold. The value ranges from 0 to 100. Default: 0
refresh_frequency_threshold	Integer	Refresh frequency threshold. The value ranges from 1 to 100. Default: 3
exiting_video_area_threshold	Integer	Threshold of exiting the video area. The value ranges from 0 to 100. Default: 8
min_video_width	Integer	Minimum video width. The value ranges from 0 to 1,280. Default: 191
min_video_length	Integer	Minimum video height. The value ranges from 0 to 1,280. Default: 191
single_frame_natural_percentage	String	Threshold of the single-frame natural image block percentage. The value ranges from 0.000001 to 1. Default: 0.3
cyclical_natural_images_number	Integer	Threshold of cyclical natural image quantity percentage. The value ranges from 0 to 100. Default: 2
non_natural_image_percentage	String	Threshold of the non-natural image area percentage. The value ranges from 0.000001 to 1. Default: 0.85
non_natural_images_number	Integer	Threshold of non-natural image quantity percentage. The value ranges from 0 to 100. Default: 25

Table 4-2067 adaptive_bitrate_control_options

Parameter	Type	Description
peak_bandwidth_suppression_enable	Boolean	Whether to enable peak bandwidth suppression. Options: false : disable; true : enable
expected_average_network_latency	Integer	Expected average network latency, in millisecond. The value ranges from 1 to 2,000. Default: 160
network_latency_threshold1	Integer	Network latency threshold 1 (ms). The value ranges from 1 to 2,000. Default: 160
network_latency_threshold2	Integer	Network latency threshold 2 (ms). The value ranges from 1 to 2,000. Default: 300
min_dynamic_frame_rate	Integer	Minimum dynamic frame rate (FPS). The value ranges from 1 to 60. Default: 17
min_dynamic_frame_rate_lv1	Integer	Minimum dynamic frame rate level 1 (FPS). The value ranges from 1 to 60. Default: 17
min_dynamic_frame_rate_lv2	Integer	Minimum dynamic frame rate level 2 (FPS). The value ranges from 1 to 60. Default: 10
rtt_threshold	Integer	Frame rate control parameter 1. The value ranges from 0 to 1,000. Default: 20
min_add_framerate	Integer	Frame rate control parameter 2. The value ranges from 0 to 120. Default: 8
max_add_framerate	Integer	Frame rate control parameter 3. The value ranges from 0 to 120. Default: 20
sub_framerate	Integer	Frame rate control parameter 4. The value ranges from 0 to 120. Default: 25
adaptive_bandwidth_lower_limit	Integer	Adaptive bandwidth lower limit, in kbit/s. The value ranges from 100 to 20,000. Default: 500
adaptive_compression_quality_lower_limit	Integer	Lower limit of adaptive lossy compression quality. The value ranges from 1 to 100. Default: 60

Parameter	Type	Description
adaptive_compression_quality_upper_limit	Integer	Upper limit of adaptive lossy compression quality. The value ranges from 1 to 100. Default: 85
adaptive_compression_quality_increase_limit	Integer	Increase limit of adaptive lossy compression quality. The value ranges from 1 to 100. Default: 5
adaptive_compression_quality_decrease_limit	Integer	Decrease limit of adaptive lossy compression quality. The value ranges from 1 to 100. Default: 10
adaptive_average_quality_lower_limit	Integer	Lower limit of adaptive average video quality. The value ranges from 5 to 50. Default: 15
adaptive_average_quality_upper_limit	Integer	Upper limit of adaptive average video quality. The value ranges from 5 to 50. Default: 25
adaptive_average_quality_increase_limit	Integer	Increase limit of adaptive average video quality. The value ranges from 1 to 50. Default: 3
adaptive_average_quality_decrease_limit	Integer	Decrease limit of adaptive average video quality. The value ranges from 1 to 50. Default: 1
adaptive_min_quality_lower_limit	Integer	Lower limit of adaptive minimum video quality. The value ranges from 5 to 69. Default: 25
adaptive_min_quality_upper_limit	Integer	Upper limit of adaptive minimum video quality. The value ranges from 5 to 69. Default: 30
adaptive_min_quality_increase_limit	Integer	Increase limit of adaptive minimum video quality. The value ranges from 1 to 50. Default: 3
adaptive_min_quality_decrease_limit	Integer	Decrease limit of adaptive minimum video quality. The value ranges from 1 to 50. Default: 1

Table 4-2068 file_and_clipboard

Parameter	Type	Description
file_redirection	file_redirection object	File redirection.

Parameter	Type	Description
clip_length_limit_f lag_c2s	Boolean	Clipboard length.
clip_length_limit_c 2s	Integer	Client clipboard length.
clip_length_limit_f lag_s2c	Boolean	Clipboard length.
clip_length_limit_s 2c	Integer	Client clipboard length.
fd_mobile_client_r edir_enable	Boolean	Whether to enable mobile client file redirection. Options: false : disable; true : enable
clipboard_redirecti on	String	Clipboard redirection. Options: DISABLED (default) SERVER_TO_CLIENT_ENABLED (from the server to the client) CLIENT_TO_SERVER_ENABLED (from the client to the server) TWO_WAY_ENABLED (two-way)
clipboard_redirecti on_options	clipboard_redirec tion_options object	Clipboard redirection options.

Table 4-2069 file_redirection

Parameter	Type	Description
redirection_mode	String	File redirection. Options: DISABLED (default) READ_ONLY READ_AND_WRITE
options	options object	File redirection options.
vm_send_file_clien t	Boolean	Whether to enable the function of sending files from the VM to the client. Options: false : disable; true : enable
redirection_send_f ile_options	redirection_send_f ile_options object	Options for both redirection and file sending.

Table 4-2070 options

Parameter	Type	Description
fluid_control_switch_enable	Boolean	Whether to enable rate limit. Options: false : disable; true : enable
fluid_control_options	fluid_control_options object	Rate limit options.
compression_switch_enable	Boolean	Whether to enable compression. Options: false : disable; true : enable
compression_switch_options	compression_switch_options object	Compression options.
linux_file_size_supported_enable	Boolean	Whether to enable the function of setting the file size in Linux. Options: false : disable; true : enable
linux_file_size_supported_options	linux_file_size_supported_options object	Options for setting the file size in Linux.
linux_root_mount_switch_enable	Boolean	Whether to enable root directory mount in Linux. Options: false : disable; true : enable
linux_root_dir_list	String	Mount path of the Linux root directory. Default: \var\log
linux_file_mount_path	String	Mount path of the Linux file system. Default: \media\Volumes\swdb\mnt\home\storage\tmp\run\media
linux_fixed_drive_file_system_format	String	Linux fixed driver file system format.
linux_removable_drive_file_system_format	String	Linux removable driver file system format. Default: vfat ntfs msdos fuseblk sdcardfs exfat fuse.fdir lifs
linux_cdrom_drive_file_system_format	String	Linux CD-ROM driver file system format. Default: cd9660 iso9660 udf

Parameter	Type	Description
linux_network_drive_file_system_format	String	Linux network driver file system format. Default: smbfs afpfs cifs
path_separator	String	Path separator. Default:
fixed_drive_enable	Boolean	Whether to enable fixed drivers (such as local disks). Options: false : disable; true : enable
removable_drive_enable	Boolean	Whether to enable removable drivers (such as USB flash drives). Options: false : disable; true : enable
cd_rom_drive_enable	Boolean	Whether to enable CD-ROM drivers. Options: false : disable; true : enable
network_drive_enable	Boolean	Whether to enable network drivers. Options: false : disable; true : enable

Table 4-2071 fluid_control_options

Parameter	Type	Description
good_network_latency	Integer	Good network latency threshold (ms). The value ranges from 1 to 1,000. Default: 30
normal_network_latency	Integer	Normal network latency threshold (ms). The value ranges from 1 to 1,000. Default: 70
poor_network_latency	Integer	Poor network latency threshold (ms). The value ranges from 1 to 1,000. Default: 100
reducing_step	Integer	Reducing step (KB). The value ranges from 1 to 100. Default: 20
slow_increasing_step	Integer	Slow increasing step (KB). The value ranges from 1 to 100. Default: 10

Parameter	Type	Description
quick_increasing_step	Integer	Quick increasing step (KB). The value ranges from 1 to 100. Default: 20
start_speed	Integer	Initial transmission speed (KB/s). The value ranges from 1 to 10,240. Default: 1,024
test_block_size	Integer	Speed test block size (KB). The value ranges from 64 to 1,024. Default: 64
test_time_gap	Integer	Speed test block interval (ms). The value ranges from 1,000 to 100,000. Default: 10,000

Table 4-2072 compression_switch_options

Parameter	Type	Description
compression_threshold	Integer	Compression threshold (byte). The value ranges from 0 to 10,240. Default: 512
minimum_compression_rate	Integer	Minimum compression rate. The value ranges from 0 to 1,000. Default: 900

Table 4-2073 linux_file_size_supported_options

Parameter	Type	Description
linux_file_size_supported_threshold	Integer	File size threshold in Linux (byte). The value ranges from 0 to 4,096. Default: 100

Table 4-2074 redirection_send_file_options

Parameter	Type	Description
read_write_speed	Integer	Read/Write speed (kbit/s). The value ranges from 0 to 2147483647. Default: 0

Table 4-2075 clipboard_redirection_options

Parameter	Type	Description
rich_text_redirection_enable	Boolean	Whether to enable clipboard rich text redirection. Options: false : disable; true : enable
clipboard_file_redirection_enable	Boolean	Whether to enable clipboard file redirection. Options: false : disable; true : enable

Table 4-2076 Session

Parameter	Type	Description
vdi	Vdi object	VDI.
self_help_console	Boolean	Whether to enable preemption login to the self-help console. Options: false : disable; true : enable
disconnect_on_lock_flag	Boolean	Whether to disconnect after the screen is locked.
auto_lock_start_time	String	Start time when the lock takes effect. The format is hh:mm:ss.
auto_lock_end_time	String	Start time when the lock takes effect. The format is hh:mm:ss.

Table 4-2077 Vdi

Parameter	Type	Description
auto_lock_enable	Boolean	Whether to enable automatic screen locking. Options: false : disable; true : enable
auto_lock_options	AutoLockOptions object	Options available after automatic screen locking is enabled.
disconnect_logout_enable	Integer	Whether to enable automatic logout upon disconnection. Options: 0 : disable; 1 : enable
disconnect_logout_options	DisconnectLogoutOptions object	Options available after automatic logout upon disconnection is enabled.

Parameter	Type	Description
disconnect_hibernate_enable	Boolean	Whether to enable automatic logout upon disconnection. Options: 0 : disable; 1 : enable
disconnect_hibernate_options	disconnect_hibernate_options object	Options for hibernation upon disconnection.
no_operation_hibernate_enable	Boolean	Whether to enable automatic logout upon disconnection. Options: 0 : disable; 1 : enable
no_operation_hibernate_options	no_operation_hibernate_options object	Do not select the hibernation option.

Table 4-2078 AutoLockOptions

Parameter	Type	Description
auto_lock_minutes	Integer	Time before screen locking, in minute. The value ranges from 3 to 86,400. Default: 10
auto_disconnect	String	Automatic disconnection or logout. Options: AUTO_DISCONNECT (automatic disconnection); AUTO_LOGOUT (automatic logout); DISABLED (disabled); AUTO_RESTART (default, automatic restart); AUTO_STOP (automatic shutdown); HIBERNATE (hibernation)
options	AutoDisconnectOrLogoutControlOptions object	Options available after automatic disconnection or automatic logout is enabled.

Table 4-2079 AutoDisconnectOrLogoutControlOptions

Parameter	Type	Description
auto_disconnect_minutes	Integer	Time before disconnection or logout, in minute. The value ranges from 1 to 86,400. Default: 1,440

Table 4-2080 DisconnectLogoutOptions

Parameter	Type	Description
disconnect_logout_minutes	Integer	Time before automatic logout upon disconnection, in minute. The value ranges from 3 to 86,400. Default: 10

Table 4-2081 disconnect_hibernate_options

Parameter	Type	Description
disconnect_hibernate_minutes	Integer	Hibernation duration upon disconnection.

Table 4-2082 no_operation_hibernate_options

Parameter	Type	Description
no_operation_hibernate_minutes	Integer	Policy group ID.

Table 4-2083 VirtualChannel

Parameter	Type	Description
virtual_channel_control_enable	Boolean	Whether to enable the virtual channel policy. Options: false : disable; true : enable
options	VirtualChannelOptions object	Virtual channel policy options.

Table 4-2084 VirtualChannelOptions

Parameter	Type	Description
custom_virtual_channel_name	String	Custom registered virtual channel name. Currently, only ASCII characters are supported. The value can contain a maximum of 65,535 characters.
virtual_channel_plugin_details	String	Virtual channel download details (Base64-encoded). Before encryption, only ASCII characters are supported. The value can contain a maximum of 65,535 characters.

Parameter	Type	Description
third_party_plugin_name	String	Third-party plug-in name. The value can contain a maximum of 65,535 characters.

Table 4-2085 Watermark

Parameter	Type	Description
watermark_enable	Boolean	Indicates whether to enable the watermark policy. Options: false : disable; true : enable
options	WatermarkOptions object	Watermark policy options.

Table 4-2086 WatermarkOptions

Parameter	Type	Description
show_style	String	Display mode. Options: FIXED (fixed position); RANDOM (random motion)
color	String	Color. Format: RRGGBB . Default: 2a2a2a
font_size	Integer	Font size. The value ranges from 1 to 200. Default: 30
opacity_setting	String	Opacity (%). The value ranges from 0 to 100. Default: 12.5
content_item_count	Integer	Number of watermarks. The value ranges from 1 to 30. Default: 1
display_format	String	Watermark content display format.
lean	Integer	Tilt. The value ranges from -90 to 90. Default: -45
content_customized	String	Custom content, which cannot contain special characters such as >.
content_color	String	Content color.
watermark_security_access	Boolean	Whether to enable the security-first mode.
user_extend_info_switch	Boolean	Whether to enable extended user information. false : disable; true : enable

Parameter	Type	Description
user_extend_info	String	Extended user information.

Table 4-2087 keyboard_mouse

Parameter	Type	Description
mouse_feedback	String	VM mouse device feedback. Options: SELFADAPTION : adaptive mouse device feedback FORCE : forcible mouse device feedback CLOSE : no mouse device feedback
mouse_simulation_mode	String	VM mouse device simulation mode. Options: ABSOLUTE_POSITION : absolute position simulation RELATIVE_POSITION : relative position simulation
external_cursor_feedback	Boolean	Whether to enable VM external cursor feedback. Options: false : disable; true : enable
selfhelp_console_enable	Boolean	Whether to enable preemption login to the self-help console. Options: false : disable; true : enable
client_mouse_send_interval	Integer	Interval for sending mouse device operations on the client. The value ranges from 1 to 30. Default: 30
windows_client_keyboard_mode	String	Windows client keyboard mode. Options: GLOBAL : global mode for Windows client keyboards (default) WINDOW : windowed mode for for Windows client keyboards

Parameter	Type	Description
windows_client_mouse_mode	String	Windows client mouse device mode. Options: GLOBAL : global mode for Windows client mouse devices WINDOW : windowed mode for Windows client mouse devices (default)
linux_client_keyboard_mode	String	Linux client keyboard mode. Options: EVENT : event mode for Linux client keyboards (default) GRAPH : graphics mode for Linux client keyboards
linux_client_mouse_mode	String	Linux client mouse device mode. Options: EVENT : event mode for Linux client mouse devices (default) GRAPH : graphics mode for Linux client mouse devices
special_keyboard	Boolean	Special keyboard. Options: false : disable; true : enable
joy_stick_flag	Boolean	Joystick. Options: false : disable; true : enable

Table 4-2088 seamless

Parameter	Type	Description
seamless_enable	Boolean	Whether to enable audio/video bypass. Options: false : disable; true : enable
options	options object	General audio/video settings.

Table 4-2089 options

Parameter	Type	Description
seamless_apply_path	String	Software path. A maximum of 1,000 characters are allowed.

Table 4-2090 personalized_data_mgmt

Parameter	Type	Description
personalized_data_mgmt_path	String	Personalized data management path.
user_data_roaming_enable	Boolean	User data roaming.
user_data_roaming_options	user_data_roaming_options object	User data roaming options.
user_folder_redirection_enable	Boolean	Enables user folder redirection.
user_folder_redirection_options	user_folder_redirection_options object	User folder redirection options.
logoff_delete_user_configuration	Boolean	Enables user folder redirection.
network_drive_mapping_enable	Boolean	Enables user folder redirection.
network_drive_mapping_options	network_drive_mapping_options object	Network driver mapping options.

Table 4-2091 user_data_roaming_options

Parameter	Type	Description
profile_streaming_enable	Boolean	Whether to enable profile streaming.
roamed_files_local_path	String	Local path of roamed files.
exclude_folders_path	String	Path of an excluded folder.
roaming_registry_method	String	Path of an excluded folder.

Parameter	Type	Description
roaming_registry_path	String	Path of roaming registration.

Table 4-2092 user_folder_redirection_options

Parameter	Type	Description
restore_local_directories_enable	Boolean	Enables the restoration of local directories.
appData_roaming_enable	Boolean	Enables application data roaming.
redirec_desktop	Boolean	Desktop redirection.
redirec_start_menu	Boolean	Start menu.
redirec_documents	Boolean	Document.
redirec_pictures	Boolean	Photo.
redirec_music	Boolean	Music.
redirec_videos	Boolean	Audio recording.
redirec_favorites	Boolean	Favorite.
redirec_contacts	Boolean	Audio recording.
redirec_downloads	Boolean	Download.
redirec_links	Boolean	Link
redirec_searches	Boolean	Search.
redirec_saved_games	Boolean	Game storage.

Table 4-2093 network_drive_mapping_options

Parameter	Type	Description
network_drive_mapping_path	String	Network drive mapping path.
drive_letter	String	Path of an excluded folder.

Table 4-2094 custom

Parameter	Type	Description
custom_configuration1_enable	Boolean	Whether to enable custom configuration.
options	options object	General audio/video settings.

Table 4-2095 options

Parameter	Type	Description
custom_configuration1_rule	String	Custom configuration rule.

Table 4-2096 record_audit

Parameter	Type	Description
enable	Boolean	Whether to enable screen recording audit. Options: false : disable; true : enable
rules	rules object	Screen recording rules.
storage_type	String	Storage type. Options: OBS : OBS bucket SFTP : SFTP interconnection
obs_bucket_source	String	OBS bucket source. Options: AUTO_CREATE : automatically created CREATED : created
obs_bucket_name	String	OBS bucket name
retention_duration	Integer	Retention period of a screen recording file, in days. The value ranges from 1 to 180. 0 indicates that the file is retained permanently.

Table 4-2097 rules

Parameter	Type	Description
rule	RecordAuditRule object	Rule.

Table 4-2098 RecordAuditRule

Parameter	Type	Description
record_type	String	Recording type. Options: whole : continuous screen recording interval : interval screen recording userOperations : screen recording by users sessionMonitoring : screen recording of the session lifecycle
interval_record_start_time	String	Start time of interval-based screen recording. This parameter is valid only when interval is used. The format is hh:mm.
interval_record_end_time	String	End time of interval-based screen recording. This parameter is valid only when interval is used. The format is hh:mm.
op_type	String	Operation triggering type. This parameter is valid only when userOperations is used. Options: input : Screen recording is started once the user enters content. filecopy : Screen recording is started once the user copies a file.
audio_record	Boolean	Whether to enable audio recording. Options: false : disable; true : enable
fps	String	Recording frame rate. The value can be 2, 5, 10, or 15 .
duration	String	Duration of a single video recording file, in minutes. The value can be 10, 20, 30, or 60 .
resolution	String	Resolution settings. The value can be 720P, 1080P, or original .
event_enable	Boolean	Whether to enable key event audit. Options: false : disabled true : enabled
file_suffix	String	File name extension. Use vertical bars () to separate multiple file name extensions.

Parameter	Type	Description
regit_paths	String	Registry path. Use vertical bars () to separate multiple registry paths.
app_filter_type	String	Application filtering type. The value can be black (blacklist) or white (whitelist).
app_white_list	String	Enables or disables the application whitelist. If it is enabled, only the whitelisted applications are monitored.
app_black_list	String	Enables or disables the application blacklist. Blacklisted applications will be ignored.

Status code: 400**Table 4-2099** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401**Table 4-2100** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403

Table 4-2101 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-2102** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 405**Table 4-2103** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500

Table 4-2104 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 503**Table 4-2105** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
GET /v2/29dfe82ada564ac2b927e1ff036d9a9b/policy-groups/original-policies
```

Example Responses

Status code: 200

Response to the request for querying policy items of a policy group.

```
{
  "policies": {
    "peripherals": {
      "usb_custom_policy_debug": "string",
      "usb_port_redirection": {
        "usb_enable": true,
        "options": {
          "usb_image_enable": true,
          "usb_video_enable": true,
          "usb_printer_enable": true,
          "usb_storage_enable": false,
          "wireless_devices_enable": false,
          "network_devices_enable": false,
          "usb_smart_card_enable": true,
          "other_usb_devices_enable": false,
          "usb_redirection_customization_policy": "string",
          "usb_redirection_mode": "Common mode"
        }
      }
    }
  },
}
```



```

"device_redirection" : {
  "printer_redirection" : {
    "printer_enable" : true,
    "options" : {
      "mobile_printer_enable" : false,
      "print_data_compression_mode" : false,
      "sync_client_default_printer_enable" : true,
      "universal_printer_driver" : "Default"
    }
  },
  "session_printer" : {
    "session_printer_enable" : false,
    "options" : {
      "session_printer_customization_policy" : "string"
    }
  },
  "camera_redirection" : {
    "video_compress_enable" : true,
    "options" : {
      "camera_frame_rate" : 15,
      "camera_max_width" : 3000,
      "camera_max_height" : 3000,
      "camera_compression_method" : "H.264"
    }
  },
  "twain_redirection_enable" : true,
  "image_compression_level" : "medium",
  "hid_redirection" : {
    "hid_redirection_enable" : false,
    "options" : {
      "hid_redirection_customization_policy" : "string"
    }
  }
},
"usb_device_common" : {
  "pcsc_smart_card_enable" : "Disable",
  "common_options" : {
    "remove_smart_card_disconnect_enable" : false
  }
},
"serial_port_redirection" : {
  "serial_port_enable" : false,
  "options" : {
    "auto_connect_enable" : false
  }
},
"parallel_port_redirection" : {
  "parallel_port_enable" : false
},
"driver_interface_redirection" : {
  "api_redir_driver_list" : "string"
},
"audio" : {
  "audio_redirection_enable" : true,
  "play_volume" : "Do Not Set Volume",
  "play_volume_ratio" : "Do Not Set Volume Ratio",
  "record_volume" : "100",
  "record_volume_ratio" : "Do Not Set Volume Ratio",
  "audio_transmission_mode" : "Reliable Transmission",
  "play_redirection_enable" : true,
  "play_classification" : "Music Play",
  "play_quality" : "Middle",
  "play_denoising" : "Disable Denoising",
  "play_agc" : "Disable AGC",
  "play_crc" : "Disable CRC",
  "play_device_mode" : "Play Device In Shared Mode",
  "play_delay_threshold" : "240",
  "play_amplitude_threshold" : "4096",

```

```

"play_prefill_data" : "Do Not Prefill Data",
"record_redirection_enable" : true,
"record_classification" : "Speech Call",
"record_quality" : "Middle",
"record_denoising" : "-25",
"record_agc" : "Disable AGC",
"record_crc" : "Disable CRC",
"record_device_mode" : "Record Device In Shared Mode",
"record_delay_threshold" : "200",
"record_amplitude_threshold" : "4096"
},
"client" : {
"automatic_reconnection_interval" : 5,
"session_persistence_time" : 180,
"autoclose_monitor_after_locked" : false,
"autoclose_monitor_options" : {
"autoclose_monitor_wait_time" : 300
},
"forbid_screen_capture" : false,
"client_machine_join_domain" : true,
"client_type" : {
"client_type_limit" : true,
"options" : {
"sc_type_window" : true,
"sc_type_mac" : true,
"sc_type_android" : true,
"sc_type_linux" : true,
"sc_type_h5" : true,
"sc_type_ios" : true,
"sc_type_harmony_os" : true,
"tc_type_all" : true
}
}
},
"display" : {
"display_level" : "LEVEL4",
"options" : {
"display_bandwidth" : 20000,
"frame_rate" : 25,
"video_frame_rate" : 30,
"min_image_cache" : 200,
"smoothing_factor" : 60,
"lossless_compression_mode" : "Basic Compression",
"deep_compression_options" : {
"deep_compression_level" : "Compression grade 0"
},
"lossy_compression_quality" : 85,
"color_enhancement_enable" : false,
"quality_bandwidth_first" : "Quality First",
"video_bit_rate_options" : {
"average_video_bit_rate" : 18000
},
"peak_video_bit_rate" : 18000,
"video_quality_options" : {
"average_video_quality" : 15,
"lowest_video_quality" : 25,
"highest_video_quality" : 7
},
"gop_size" : 100,
"encoding_preset" : "Preset 1"
},
"rendering_acceleration_enable" : false,
"rendering_acceleration_options" : {
"video_acceleration_enhancement_enable" : true,
"video_optimization_enable" : false,
"gpu_color_optimization_enable" : false,
"video_recognition_threshold" : 10,
"frame_rate_statistical_length" : 4,
"image_quality_threshold" : 0,

```

```

"refresh_frequency_threshold" : 3,
"exiting_video_area_threshold" : 8,
"min_video_width" : 191,
"min_video_length" : 191,
"single_frame_natural_percentage" : "0.3",
"cyclical_natural_images_number" : 2,
"non_natural_image_percentage" : "0.85",
"non_natural_images_number" : 25
},
"adaptive_bitrate_control_enable" : false,
"adaptive_bitrate_control_options" : {
  "peak_bandwidth_suppression_enable" : false,
  "expected_average_network_latency" : 160,
  "network_latency_threshold1" : 160,
  "network_latency_threshold2" : 300,
  "min_dynamic_frame_rate" : 17,
  "min_dynamic_frame_rate_lv1" : 17,
  "min_dynamic_frame_rate_lv2" : 10,
  "rtt_threshold" : 20,
  "min_add_framerate" : 8,
  "max_add_framerate" : 20,
  "sub_framerate" : 25,
  "adaptive_bandwidth_lower_limit" : 500,
  "adaptive_compression_quality_lower_limit" : 60,
  "adaptive_compression_quality_upper_limit" : 85,
  "adaptive_compression_quality_increase_limit" : 5,
  "adaptive_compression_quality_decrease_limit" : 10,
  "adaptive_average_quality_lower_limit" : 15,
  "adaptive_average_quality_upper_limit" : 25,
  "adaptive_average_quality_increase_limit" : 3,
  "adaptive_average_quality_decrease_limit" : 1,
  "adaptive_min_quality_lower_limit" : 25,
  "adaptive_min_quality_upper_limit" : 30,
  "adaptive_min_quality_increase_limit" : 3,
  "adaptive_min_quality_decrease_limit" : 1
},
"video_card_memory_size" : 64,
"configuration1_enable" : false,
"driver_delegation_mode_enable" : false,
"driver_delegation_latency" : 80,
"video_latency" : 80,
"change_resolution_vm" : false,
"application_recognition" : "string",
"duplicate_display_enable" : false,
"default_mapping_order" : "1,2,3,4",
"duplicate_display_mode" : "One-to-One"
},
"file_and_clipboard" : {
  "file_redirection" : {
    "redirection_mode" : "DISABLED",
    "options" : {
      "fluid_control_switch_enable" : false,
      "fluid_control_options" : {
        "good_network_latency" : 30,
        "normal_network_latency" : 70,
        "poor_network_latency" : 100,
        "reducing_step" : 20,
        "slow_increasing_step" : 10,
        "quick_increasing_step" : 20,
        "start_speed" : 1024,
        "test_block_size" : 64,
        "test_time_gap" : 10000
      },
      "compression_switch_enable" : false,
      "compression_switch_options" : {
        "compression_threshold" : 512,
        "minimum_compression_rate" : 900
      },
      "linux_file_size_supported_enable" : true,

```

```

    "linux_file_size_supported_options" : {
      "linux_file_size_supported_threshold" : 100
    },
    "linux_root_mount_switch_enable" : true,
    "linux_root_dir_list" : "\\\\.\\var\\\.\\log",
    "linux_file_mount_path" : "\\\\.\\media\\\.\\Volumes\\\.\\swdb\\\.\\mnt\\\.\\home\\\.\\storage\\\.\\tmp\\\.\\run
\\\\\.\\media",
    "linux_fixed_drive_file_system_format" : "string",
    "linux_removable_drive_file_system_format" : "vfat|ntfs|msdos|fuseblk|sdcardfs|exfat|fuse.fdirig|lifs",
    "linux_cdrom_drive_file_system_format" : "cd9660|iso9660|udf",
    "linux_network_drive_file_system_format" : "smbfs|afpfs|cifs",
    "path_separator" : "|",
    "fixed_drive_enable" : true,
    "removable_drive_enable" : true,
    "cd_rom_drive_enable" : true,
    "network_drive_enable" : true
  },
  "vm_send_file_client" : true,
  "redirection_send_file_options" : {
    "read_write_speed" : 0
  }
},
"clip_length_limit_flag_c2s" : true,
"clip_length_limit_c2s" : 180,
"clip_length_limit_flag_s2c" : true,
"clip_length_limit_s2c" : 180,
"fd_mobile_client_redir_enable" : true,
"clipboard_redirection" : "DISABLED",
"clipboard_redirection_options" : {
  "rich_text_redirection_enable" : true,
  "clipboard_file_redirection_enable" : true
}
},
"session" : {
  "vdi" : {
    "auto_lock_enable" : true,
    "auto_lock_options" : {
      "auto_lock_minutes" : 10,
      "auto_disconnect" : "DISABLED",
      "options" : {
        "auto_disconnect_minutes" : 1440
      }
    },
    "disconnect_logout_enable" : 0,
    "disconnect_logout_options" : {
      "disconnect_logout_minutes" : 10
    },
    "disconnect_hibernate_enable" : false,
    "disconnect_hibernate_options" : {
      "disconnect_hibernate_minutes" : 0
    },
    "no_operation_hibernate_enable" : false,
    "no_operation_hibernate_options" : {
      "no_operation_hibernate_minutes" : 0
    }
  },
  "self_help_console" : true,
  "disconnect_on_lock_flag" : false
},
"virtual_channel" : {
  "virtual_channel_control_enable" : false,
  "options" : {
    "custom_virtual_channel_name" : "string",
    "virtual_channel_plugin_details" : "string",
    "third_party_plugin_name" : "string"
  }
},
"watermark" : {
  "watermark_enable" : false,

```

```

"options" : {
  "show_style" : "RANDOM",
  "color" : "2a2a2a",
  "font_size" : 30,
  "opacity_setting" : "12.5",
  "content_item_count" : 1,
  "display_format" : "{\AlignMode\":"left\","DateTimeFormat\":"DT\","DateFormat\":"yyyy-mm-dd
\","TimeFormat\":"hh:mm:ss\","RepeatCount\":"2\","RepeatInterval\":"10\","DisplayFormat\":"
{\Content1\":"CustomContent\","Interval1\":"n\","Content2\":"UserName
\","Interval2\":"4\","Content3\":"DateTime\}}",
  "lean" : -45,
  "content_customized" : "string",
  "content_color" : 522857002,
  "watermark_security_access" : false,
  "user_extend_info_switch" : false,
  "user_extend_info" : "string"
}
},
"keyboard_mouse" : {
  "mouse_feedback" : "SELFADAPTION",
  "mouse_simulation_mode" : "ABSOLUTE_POSITION",
  "external_cursor_feedback" : false,
  "selfhelp_console_enable" : true,
  "client_mouse_send_interval" : 30,
  "windows_client_keyboard_mode" : "GLOBAL",
  "windows_client_mouse_mode" : "WINDOW",
  "linux_client_keyboard_mode" : "EVENT",
  "linux_client_mouse_mode" : "EVENT",
  "special_keyboard" : false,
  "joy_stick_flag" : false
},
"seamless" : {
  "seamless_enable" : false,
  "options" : {
    "seamless_apply_path" : "string"
  }
},
"personalized_data_mgmt" : {
  "personalized_data_mgmt_path" : "string",
  "user_data_roaming_enable" : false,
  "user_data_roaming_options" : {
    "profile_streaming_enable" : false,
    "roamed_files_local_path" : "string",
    "exclude_folders_path" : "string",
    "roaming_registry_method" : "string",
    "roaming_registry_path" : "string"
  },
  "user_folder_redirection_enable" : false,
  "user_folder_redirection_options" : {
    "restore_local_directories_enable" : false,
    "appData_roaming_enable" : false,
    "redirec_desktop" : false,
    "redirec_start_menu" : false,
    "redirec_documents" : false,
    "redirec_pictures" : false,
    "redirec_music" : false,
    "redirec_videos" : false,
    "redirec_favorites" : false,
    "redirec_contacts" : false,
    "redirec_downloads" : false,
    "redirec_links" : false,
    "redirec_searches" : false,
    "redirec_saved_games" : false
  },
  "logoff_delete_user_configuration" : false,
  "network_drive_mapping_enable" : false,
  "network_drive_mapping_options" : {
    "network_drive_mapping_path" : "string",
    "drive_letter" : "string"
  }
}

```

```
    }
  },
  "custom" : {
    "custom_configuration1_enable" : false,
    "options" : {
      "custom_configuration1_rule" : "string"
    }
  },
  "record_audit" : {
    "enable" : true,
    "rules" : {
      "rule" : {
        "record_type" : "string",
        "interval_record_start_time" : "string",
        "interval_record_end_time" : "string",
        "op_type" : "string",
        "audio_record" : true,
        "fps" : 0,
        "duration" : 0,
        "resolution" : "string"
      }
    }
  }
}
```

Status Codes

Status Code	Description
200	Response to the request for querying policy items of a policy group.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.14.12 Creating an Access Policy

Function

Creates an access policy.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2/{project_id}/access-policy

Table 4-2106 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-2107 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body, for example, application/json .

Table 4-2108 Request body parameters

Parameter	Mandatory	Type	Description
policy	Yes	AccessPolicyInfo object	Access policy information.
policy_objects_list	No	Array of AccessPolicyObjectInfo objects	Objects to which the policy is applied.

Table 4-2109 AccessPolicyInfo

Parameter	Mandatory	Type	Description
policy_name	No	String	Policy name.
blacklist_type	No	String	Blacklist type. Currently, the blacklist supports only the Internet. <ul style="list-style-type: none"> INTERNET: Internet
access_control_type	No	String	Access control type, which defaults to ACCESS_TYPE . <ul style="list-style-type: none"> ACCESS_TYPE: access type IP_WHITE_LIST: IP address whitelist
ip_list	No	Array of IpInfo objects	IP addresses of a policy.
is_enable	No	Boolean	Whether the IP address whitelist takes effect. This value can be updated only separately. This value has the highest priority. If this value is transferred, only the policy's activation status will be changed.
is_block_all	No	Boolean	Whether the IP address whitelist prohibits access from all IP addresses. If is_enable is set to false , this value cannot be changed. This value can be updated only separately.

Table 4-2110 IpInfo

Parameter	Mandatory	Type	Description
ip_address	Yes	String	IP address.
subnet_mask	Yes	String	Subnet mask.

Table 4-2111 AccessPolicyObjectInfo

Parameter	Mandatory	Type	Description
object_id	Yes	String	ID of an object in the blacklist.

Parameter	Mandatory	Type	Description
object_type	Yes	String	Object type <ul style="list-style-type: none"> • USER: user • USERGROUP: user group
object_name	No	String	Object name This parameter will not be verified later.

Response Parameters

Status code: 200

Normal.

Status code: 400

Table 4-2112 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401

Table 4-2113 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403

Table 4-2114 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-2115** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 405**Table 4-2116** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500

Table 4-2117 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 503**Table 4-2118** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
post /v2/{project_id}/access-policy
{
  "policy": {
    "policy_name": "PRIVATE_ACCESS",
    "blacklist_type": "INTERNET"
  }
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Normal.
400	The request cannot be understood by the server due to malformed syntax.

Status Code	Description
401	Authentication failed.
403	No operation permission.
404	No resources found.
405	The request method is not allowed.
500	An internal service error occurred. For details about the error code, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.14.13 Query access policies

Function

Queries an access policy.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/access-policy

Table 4-2119 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-2120 Query Parameters

Parameter	Mandatory	Type	Description
access_control_type	No	String	Access control policy type. <ul style="list-style-type: none"> ACCESS_TYPE: access type IP_WHITE_LIST: IP address whitelist

Parameter	Mandatory	Type	Description
limit	No	Integer	Number of records on each page. The value ranges from 0 to 100 and defaults to 100.
offset	No	Integer	Offset. The value ranges from 0 to 99 and defaults to 0.

Request Parameters

Table 4-2121 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body, for example, application/json .

Response Parameters

Status code: 200

Table 4-2122 Response body parameters

Parameter	Type	Description
policies	Array of AccessPolicyDetailInfo objects	Response for querying an access policy.
total	Integer	Total number of policies.

Table 4-2123 AccessPolicyDetailInfo

Parameter	Type	Description
policy_name	String	Policy name.

Parameter	Type	Description
blacklist_type	String	Blacklist type. Currently, the blacklist supports only the Internet. <ul style="list-style-type: none"> INTERNET: Internet
access_control_type	String	Access control type, which defaults to ACCESS_TYPE . <ul style="list-style-type: none"> ACCESS_TYPE: access type IP_WHITE_LIST: IP address whitelist
ip_list	Array of IpInfo objects	IP addresses of a policy.
is_enable	Boolean	Whether the IP address whitelist takes effect. This value can be updated only separately. This value has the highest priority. If this value is transferred, only the policy's activation status will be changed.
is_block_all	Boolean	Whether the IP address whitelist prohibits access from all IP addresses. If is_enable is set to false , this value cannot be changed. This value can be updated only separately.
ip_total_count	Integer	Total number of policies.
policy_id	String	Specifies the policy ID.
create_time	String	Time when a user's OTP device is bound.

Table 4-2124 IpInfo

Parameter	Type	Description
ip_address	String	IP address.
subnet_mask	String	Subnet mask.

Status code: 400**Table 4-2125** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Parameter	Type	Description
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401**Table 4-2126** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-2127** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-2128** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Parameter	Type	Description
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 405**Table 4-2129** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-2130** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 503**Table 4-2131** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Parameter	Type	Description
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
get /v2/{project_id}/access-policy
```

Example Responses

Status code: 200

Normal.

```
{
  "policies" : [ {
    "policy_id" : "8ac225c2781edb0d01781edde3f4xxxx",
    "create_time" : "2022-10-24T17:24:56.000+00:00",
    "policy_name" : "PRIVATE_ACCESS",
    "blacklist_type" : "INTERNET"
  } ],
  "total" : 1
}
```

Status Codes

Status Code	Description
200	Normal.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permission.
404	No resources found.
405	The request method is not allowed.
500	An internal service error occurred. For details about the error code, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.14.14 Deletes an access policy

Function

Deletes a specified access policy.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

DELETE /v2/{project_id}/access-policy

Table 4-2132 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-2133 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body, for example, application/json .

Table 4-2134 Request body parameters

Parameter	Mandatory	Type	Description
policy_id_list	No	Array of strings	Policy ID list.

Response Parameters

Status code: 200

Normal.

Status code: 400

Table 4-2135 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401

Table 4-2136 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403

Table 4-2137 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404

Table 4-2138 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 405**Table 4-2139** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-2140** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 503

Table 4-2141 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
delete /v2/0e973a948e8091232f25c00673f168b7/access-policy
{
  "policy_id_list" : [ "f77db5cd-c0-47d4-bbbe-9b979a38d18c", "f77db5cd-c0-47d4-bbbe-9b979a38d18b" ]
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Normal.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permission.
404	No resources found.
405	You are not allowed to use the method specified in the request.
500	An internal service error occurred. For details about the error code, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.14.15 Updating a Specified Access Policy

Function

Updates a specified access policy.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT /v2/{project_id}/access-policy/{access_policy_id}

Table 4-2142 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
access_policy_id	Yes	String	Access policy ID.

Request Parameters

Table 4-2143 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body, for example, application/json .

Table 4-2144 Request body parameters

Parameter	Mandatory	Type	Description
operation_type	No	String	Operation type. <ul style="list-style-type: none"> • ADD_IP: adding an IP address • DELETE_IP: deleting an IP address
ip_white_list	No	Array of IpInfo objects	IP addresses of a policy.
is_enable	No	Boolean	Whether the IP address whitelist takes effect.
is_block_all	No	Boolean	Whether the IP address whitelist prohibits access from all IP addresses.

Table 4-2145 IpInfo

Parameter	Mandatory	Type	Description
ip_address	Yes	String	IP address.
subnet_mask	Yes	String	Subnet mask.

Response Parameters

Status code: 200

Normal.

Status code: 400

Table 4-2146 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorizati-on-message of STS to decrypt the reason.

Status code: 401

Table 4-2147 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-2148** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-2149** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 405

Table 4-2150 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-2151** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 503**Table 4-2152** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
put /v2/0e973a948e8091232f25c00673f168b7/access-policy/20b726affecc4411bc49a66e3e8f63
{
  "ip_white_list" : [ {
    "ip_address" : "192.xxx.xxx.xxx",
    "subnet_mask" : "255.xxx.xxx.xxx"
  }, {
```

```
"ip_address" : "192.xxx.xxx.xxx",  
"subnet_mask" : "255.xxx.xxx.xxx"  
} ]  
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Normal.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.14.16 Query the target object of a specified access policy

Function

Queries the object to which a specified access policy is applied.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/access-policy/{access_policy_id}/objects

Table 4-2153 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
access_policy_id	Yes	String	Access policy ID.

Table 4-2154 Query Parameters

Parameter	Mandatory	Type	Description
limit	No	Integer	Number of records on each page. The value ranges from 0 to 2000 and defaults to 10.
offset	No	Integer	Offset. The value ranges from 0 to 1999 and defaults to 0.

Request Parameters

Table 4-2155 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body, for example, application/json .

Response Parameters

Status code: 200

Table 4-2156 Response body parameters

Parameter	Type	Description
policy_objects_list	Array of AccessPolicyObject objects	Response for querying the object to which an access policy is applied.

Parameter	Type	Description
total	Integer	Number of objects.

Table 4-2157 AccessPolicyObject

Parameter	Type	Description
object_id	String	ID of an object in the blacklist.
object_name	String	Object name
object_type	String	Object type <ul style="list-style-type: none"> • USER: user • USERGROUP: user group

Status code: 400**Table 4-2158** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401**Table 4-2159** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403

Table 4-2160 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-2161** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 405**Table 4-2162** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500

Table 4-2163 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 503**Table 4-2164** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
get /v2/0e973a948e8091232f25c00673f168b7/access-policy/20b726affecc4411bc49a66e3e8f63/objects
```

Example Responses

Status code: 200

Objects to which a policy is applied.

```
{
  "policy_objects_list" : [ {
    "object_id" : "8ac225c2781edb0d01781edde3f4xxxx",
    "object_name" : "test1",
    "object_type" : "USER"
  }, {
    "object_id" : "8ac225c2781edb0d01781edde3f4xxxx",
    "object_name" : "test2",
    "object_type" : "USER"
  } ],
  "total" : 2
}
```

Status Codes

Status Code	Description
200	Objects to which a policy is applied.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permission.
404	No resources found.
405	The request method is not allowed.
500	An internal service error occurred. For details about the error code, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.14.17 Update the target object of a specified access policy

Function

Updates the object to which a specified access policy is applied.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT /v2/{project_id}/access-policy/{access_policy_id}/objects

Table 4-2165 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
access_policy_id	Yes	String	Access policy ID.

Request Parameters

Table 4-2166 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body, for example, application/json .

Table 4-2167 Request body parameters

Parameter	Mandatory	Type	Description
policy_objects_list	No	Array of AccessPolicyObjectInfo objects	Request for updating the list of objects to which a policy is applied.

Table 4-2168 AccessPolicyObjectInfo

Parameter	Mandatory	Type	Description
object_id	Yes	String	ID of an object in the blacklist.
object_type	Yes	String	Object type <ul style="list-style-type: none"> • USER: user • USERGROUP: user group
object_name	No	String	Object name This parameter will not be verified later.

Response Parameters

Status code: 200

Normal.

Status code: 400

Table 4-2169 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401**Table 4-2170** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-2171** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404

Table 4-2172 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 405**Table 4-2173** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-2174** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 503

Table 4-2175 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
put /v2/0e973a948e8091232f25c00673f168b7/access-policy/20b726affecc4411bc49a66e3e8f63/objects
{
  "policy_objects_list": [ {
    "object_id": "8ac225c2781edb0d01781edde3f4xxxx",
    "object_type": "USER"
  }, {
    "object_id": "8ac225c2781edb0d01781edde3f4xxxx",
    "object_type": "USER"
  } ]
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Normal.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permission.
404	No resources found.
405	The request method is not allowed.
500	An internal service error occurred. For details about the error code, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.15 Binds a terminal to a desktop

4.15.1 Queries the configuration of the switch for binding a terminal to a desktop

Function

Queries the configuration of the switch for binding a terminal to a desktop.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/terminals/binding-desktops/config

Table 4-2176 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-2177 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	No	String	MIME type of the request body.
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API that is used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-2178 Response body parameters

Parameter	Type	Description
tc_bind_switch	String	Binding switch. The value can only be on or off .
tc_auto_bind_switch	String	Automatic binding switch. The value can only be on or off .
tc_auto_bind_max	Integer	Maximum number of bindings. The default value is 1 .

Status code: 400

Table 4-2179 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorizati-on-message of STS to decrypt the reason.

Status code: 404

Table 4-2180 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorizati-on-message of STS to decrypt the reason.

Status code: 500**Table 4-2181** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
get /v2/fb2e5ec048384c8f9469d22db0037908/terminals/binding-desktops/config
```

Example Responses**Status code: 200**

Normal.

```
{
  "tc_bind_switch" : "ON"
}
```

Status Codes

Status Code	Description
200	Normal.
400	The request cannot be understood by the server due to malformed syntax.
404	No resource found.
500	An internal service error occurred. For details about the error code, see the error code description.

Error Codes

See [Error Codes](#).

4.15.2 Configures the switch for binding a terminal to a desktop

Function

Configures the switch for binding a terminal to a desktop.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2/{project_id}/terminals/binding-desktops/config

Table 4-2182 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-2183 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	No	String	MIME type of the request body.
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API that is used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 4-2184 Request body parameters

Parameter	Mandatory	Type	Description
tc_bind_switch	Yes	String	Binding switch. The value can only be on or off .
tc_auto_bind_switch	No	String	Automatic binding switch. The value can only be on or off .

Parameter	Mandatory	Type	Description
tc_auto_bind_max	No	Integer	Maximum number of bindings. The default value is 1 .

Response Parameters

Status code: 200

Normal.

Status code: 400

Table 4-2185 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404

Table 4-2186 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500

Table 4-2187 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
post /v2/fb2e5ec048384c8f9469d22db0037908/terminals/binding-desktops/config
{
  "tc_bind_switch" : "ON"
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Normal.
400	The request cannot be understood by the server due to malformed syntax.
404	No resource found.
500	An internal service error occurred. For details about the error code, see the error code description.

Error Codes

See [Error Codes](#).

4.15.3 Queries terminal-desktop binding configurations

Function

Queries the configuration list of terminal-desktop binding.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/terminals/binding-desktops

Table 4-2188 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-2189 Query Parameters

Parameter	Mandatory	Type	Description
computer_name	No	String	Desktop name.
mac	No	String	MAC address.
offset	Yes	Integer	Start number.
limit	Yes	Integer	Quantity.
count_only	No	Boolean	Whether to query only the total number of results.

Request Parameters

Table 4-2190 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	No	String	MIME type of the request body.
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API that is used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-2191 Response body parameters

Parameter	Type	Description
bind_list	Array of TerminalsBinding DesktopsInfo objects	Information about binding between VMs and MAC addresses.
total_num	Integer	Total number of returned results.

Table 4-2192 TerminalsBindingDesktopsInfo

Parameter	Type	Description
id	String	ID of the MAC address binding policy.
mac	String	MAC address of the terminal.
desktop_name	String	VM name.
description	String	Description.

Status code: 400

Table 4-2193 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404

Table 4-2194 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-2195** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
get /v2/fb2e5ec048384c8f9469d22db0037908/terminals/binding-desktops
```

Example Responses

Status code: 200

Normal.

```
{
  "bind_list": [ {
    "id": "8ac225c2781edb0d01781edde3f4xxx",
    "mac": "AA-BB-CC-DD-EE-FF",
    "desktop_name": "test01",
    "description": "test"
  } ],
  "total_num": 1
}
```

Status Codes

Status Code	Description
200	Normal.
400	The request cannot be understood by the server due to malformed syntax.
404	No resource found.
500	An internal service error occurred. For details about the error code, see the error code description.

Error Codes

See [Error Codes](#).

4.15.4 Adds a terminal-desktop binding configuration

Function

Adds a terminal-desktop binding configuration.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2/{project_id}/terminals/binding-desktops

Table 4-2196 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-2197 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	No	String	MIME type of the request body.

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API that is used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 4-2198 Request body parameters

Parameter	Mandatory	Type	Description
bind_list	No	Array of CreateTerminalsBindingDesktopsInfo objects	Policies to be added for binding MAC addresses to VMs.

Table 4-2199 CreateTerminalsBindingDesktopsInfo

Parameter	Mandatory	Type	Description
line	No	Integer	Line number, which is used for batch import.
mac	No	String	MAC address of the terminal.
desktop_name	No	String	Desktop name, which is used for batch import.
description	No	String	Description.

Response Parameters

Status code: 200

Normal.

Status code: 400

Table 4-2200 Response body parameters

Parameter	Type	Description
bind_result_list	Array of CreateTerminalsBindingDesktopsResult objects	Binding policy creation result.
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Table 4-2201 CreateTerminalsBindingDesktopsResult

Parameter	Type	Description
line	Integer	Line number, which is used for batch import.
mac	String	MAC address of the terminal.
sid	String	VM ID.
desktop_name	String	Desktop name, which is used for batch import.
validation_result_code	String	Code of binding policy verification result.
validation_result_msg	String	Binding policy verification result, which is used for identification during batch import.
description	String	Description.

Status code: 404**Table 4-2202** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.

Parameter	Type	Description
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500

Table 4-2203 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
post /v2/fb2e5ec048384c8f9469d22db0037908/terminals/binding-desktops
{
  "bind_list": [ {
    "line": 0,
    "mac": "AA-BB-CC-DD-EE-FF",
    "desktop_name": "test01",
    "description": "test"
  } ]
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Normal.

Status Code	Description
400	The request cannot be understood by the server due to malformed syntax.
404	No resource found.
500	An internal service error occurred. For details about the error code, see the error code description.

Error Codes

See [Error Codes](#).

4.15.5 Modifies a terminal-desktop binding configuration

Function

Modifies a terminal-desktop binding configuration.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT /v2/{project_id}/terminals/binding-desktops

Table 4-2204 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-2205 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	No	String	MIME type of the request body.

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API that is used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 4-2206 Request body parameters

Parameter	Mandatory	Type	Description
id	Yes	String	Policy ID.
mac	Yes	String	MAC address of the terminal.
desktop_name	Yes	String	VM name.
description	No	String	Description.

Response Parameters

Status code: 200

Normal.

Status code: 400

Table 4-2207 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404

Table 4-2208 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500

Table 4-2209 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
put /v2/fb2e5ec048384c8f9469d22db0037908/terminals/binding-desktops
{
  "id" : "abcdefxxxxfghjxxxxxjkl",
  "mac" : "AA-BB-CC-DD-EE-FF",
  "desktop_name" : "test01",
  "description" : "test"
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Normal.
400	The request cannot be understood by the server due to malformed syntax.
404	No resource found.
500	An internal service error occurred. For details about the error code, see the error code description.

Error Codes

See [Error Codes](#).

4.15.6 Deletes a terminal-desktop binding configuration

Function

Deletes a terminal-desktop binding configuration.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2/{project_id}/terminals/binding-desktops/batch-delete

Table 4-2210 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-2211 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	No	String	MIME type of the request body.

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API that is used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 4-2212 Request body parameters

Parameter	Mandatory	Type	Description
id_list	No	Array of strings	Binding policy IDs.

Response Parameters

Status code: 200

Table 4-2213 Response body parameters

Parameter	Type	Description
result_list	Array of DeleteTerminalsBindingDesktopsResult objects	IDs of policies to be deleted.

Table 4-2214 DeleteTerminalsBindingDesktopsResult

Parameter	Type	Description
id	String	ID of the policy to be deleted.
delete_result_code	String	Result code of the deletion operation.
delete_result_msg	String	Result of the deletion operation.

Status code: 400

Table 4-2215 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-2216** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-2217** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
post /v2/fb2e5ec048384c8f9469d22db0037908/terminals/binding-desktops/batch-delete
{
  "id_list": [ "abcdfxxxxfghjxxxxxjkl" ]
}
```

Example Responses

Status code: 200

Normal.

```
{
  "result_list": [ {
    "id": "abcdfxxxxfghjxxxxxjkl",
    "delete_result_code": "WKS.00000000",
    "delete_result_msg": "success"
  } ]
}
```

Status Codes

Status Code	Description
200	Normal.
400	The request cannot be understood by the server due to malformed syntax.
404	No resource found.
500	An internal service error occurred. For details about the error code, see the error code description.

Error Codes

See [Error Codes](#).

4.16 Order

4.16.1 Placing a Yearly/Monthly Order

Function

Places an order for yearly/monthly resources, including desktops, disks.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2/{project_id}/periodic/subscribe/order

Table 4-2218 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-2219 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	No	String	MIME type of the request body.

Table 4-2220 Request body parameters

Parameter	Mandatory	Type	Description
type	Yes	String	Order type. createDesktops : creating a desktop; addVolumes : adding a disk; rebuildDesktops : recomposing the system disk; createDesktopPool : creating a desktop pool; expandDesktopPool : expanding the desktop pool capacity; applyDesktopsInternet : enabling the desktop EIP network access; createExclusiveHosts : creating an exclusive host; subscribeUserSharer : subscribing to user collaboration resources; ApplySubnetBandwidth : enabling the Workspace bandwidth
enterprise_project_id	No	String	Enterprise project ID, which is 0 by default.
resources	Yes	Array of Resource objects	Yearly/Monthly resource.
extend_param	No	OrderExtendParam object	Extended parameter of the order.

Table 4-2221 Resource

Parameter	Mandatory	Type	Description
period_type	No	Integer	Mandatory. There are multiple subscription period options: 2 : monthly; 3 : yearly; 4 : hourly (only for bandwidth add-on packages); 5 : absolute time (for supplemented resources such as EVS disks attached to ECSs); 6 : once-off (chargingMode set to 1)
period_num	No	Integer	Number of subscription periods.

Parameter	Mandatory	Type	Description
is_auto_renew	No	Integer	Whether auto-renewal is enabled.
add_volumes	No	AddVolumes object	Disk order request.
create_desktops	No	CreateDesktopReq object	Request for creating a desktop.
rebuild_desktops	No	RebuildDesktopsReq object	Request for recomposing the system disk.
attach_desktops	No	AttachInstancesReq object	Request for assigning a desktop to a user.
create_exclusive_hosts	No	CreateExclusiveHostsReq object	Request body for creating an exclusive host.
resize_exclusive_lites	No	ResizeExclusiveLitesReq object	Request for changing the number of desktops on an exclusive host.
create_desktop_pool	No	CreateDesktopPoolReq object	Request for creating a desktop.
expand_desktop_pool	No	ExpandDesktopPoolOrderReq object	Request for expanding the desktop pool capacity.
apply_desktops_internet	No	ApplyDesktopsInternet object	Request body for enabling desktop network access.
apply_subnet_bandwidth	No	ApplySubnetBandwidthReq object	Request body for enabling Workspace bandwidth.
subscribe_user_sharer	No	SubscribeUserSharerReq object	Request body for subscribing to collaboration.

Table 4-2222 AddVolumes

Parameter	Mandatory	Type	Description
desktop_id	Yes	String	Desktop ID.
volumes	Yes	Array of Volume objects	Disk information of the order.

Table 4-2223 CreateDesktopReq

Parameter	Mandatory	Type	Description
desktop_type	Yes	String	Specifies the cloud desktop type. <ul style="list-style-type: none"> • DEDICATED: dedicated desktop for a single user. • SHARED: Multiple users share the desktop.
availability_zone	No	String	AZ. Creates a desktop in the specified AZ. If this parameter is not specified, the default AZ is used.
product_id	Yes	String	Package ID.
image_type	Yes	String	Image type. The default value is private . <ul style="list-style-type: none"> • private: a private image • gold: a public image
image_id	Yes	String	Image ID. This parameter is used together with product_id for creating desktops using custom images.
root_volume	Yes	Volume object	System disk.
data_volumes	No	Array of Volume objects	Data disks.
nics	No	Array of Nic objects	Information about the NIC corresponding to the desktop. If this parameter is not specified, the default NIC is used.
security_groups	No	Array of SecurityGroup objects	Security group used by the desktop. If no security group is specified, the security group specified in the desktop agent is used by default.

Parameter	Mandatory	Type	Description
desktops	No	Array of Desktop objects	Parameters used for creating a desktop. The value contains 1 to 50 characters. Currently, a batch of desktops cannot have different configurations. The configurations of all desktops must be the same as those of the first desktop. If no parameter is specified for the first desktop, the outer parameters with the same name are used.
desktop_name	No	String	This parameter is used together with size . If size is set to 1 , this parameter indicates the desktop name, which consists of 1 to 15 characters. If size is set to a value greater than 1 , this parameter indicates the desktop name prefix, which consists of 1 to 13 characters.
desktop_ips	No	Array of strings	IP addresses assigned to the desktop. The value ranges from 0 to 100.
size	No	Integer	Number of desktops that are not assigned to users. This parameter cannot be used together with desktops . It is used together with desktop_name .
email_notification	No	Boolean	Whether to send an email to notify the desktop user after a desktop is created. The default value is true .
enterprise_project_id	No	String	Enterprise project ID, which is 0 by default.
tags	No	Array of Tag objects	Tags.
apply_shared_vpc_dedicated_param	No	ApplySharedVpcDedicatedParam object	Input parameter of the shared VPC Direct Connect.
eip	No	Eip object	EIP information.

Parameter	Mandatory	Type	Description
desktop_name_policy_id	No	String	Policy ID, which is used to specify the desktop name generation policy. If a desktop name is specified, the specified desktop name is used preferentially.
hour_package_product_id	No	String	Hourly desktop package ID.
hour_package_offering_id	No	String	Offering ID of an hourly desktop package.

Table 4-2224 Volume

Parameter	Mandatory	Type	Description
type	Yes	String	Desktop data disk type, which must be the same as the disk type provided by the system. <ul style="list-style-type: none"> • SAS: high I/O • SSD: ultra-high I/O • GPSSD: general-purpose SSD
size	Yes	Integer	Disk capacity in GB. The system disk size ranges from 80 to 32760, and the data disk size ranges from 10 to 32760. The value must be a multiple of 10.

Table 4-2225 Nic

Parameter	Mandatory	Type	Description
subnet_id	Yes	String	ID of the subnet on which the NIC works.

Table 4-2226 SecurityGroup

Parameter	Mandatory	Type	Description
id	Yes	String	Security group ID.

Table 4-2227 Desktop

Parameter	Mandatory	Type	Description
user_name	Yes	String	User to whom a desktop belongs. After a desktop is created, the user can log in to the desktop. Only letters, digits, hyphens (-), and underscores (_) are allowed. When the domain type is LITE_AD , the value contains 1 to 20 characters starting with a letter. When the domain type is LOCAL_AD , the value contains 1 to 32 characters starting with a letter or digit. A Windows desktop username can contain a maximum of 20 characters, and a Linux desktop username can contain a maximum of 32 characters.
user_email	No	String	Valid user email. After a desktop is created, the system informs users through emails.
user_phone	No	String	Mobile number of a valid user.
user_group	No	String	User group to which the desktop user belongs. <ul style="list-style-type: none"> • sudo: Linux administrator group. • default: Default Linux user group. • administrators: Windows administrator group. Administrators have full access to the desktop and can make any required changes except for forbidden operations. • users: standard Windows user group. Standard users can use most software programs and change system settings that do not affect other users.

Parameter	Mandatory	Type	Description
computer_name	No	String	Desktop name, which must be unique. The desktop name can contain 1 to 15 characters in letters, digits, and hyphens (-). It must start with a letter or digit and cannot end with a hyphen (-).
os_host_name	No	String	Computer name in the OS.
desktop_name_prefix	No	String	Desktop name prefix. This parameter takes effect when computer_name is not specified.

Table 4-2228 ApplySharedVpcDedicatedParam

Parameter	Mandatory	Type	Description
address	No	String	Shared VPC Direct Connect address specified by the tenant.
port	No	Integer	Shared VPC Direct Connect address port specified by the tenant.
availability_zone	No	Array of strings	AZ used for subscribing to service resources. By default, two AZs are randomly used.

Table 4-2229 Eip

Parameter	Mandatory	Type	Description
id	No	String	ID of the EIP bound to the desktop. If this parameter is specified, the EIP is preferentially bound.
type	No	String	EIP type. The value can be 5_bgp (dynamic BGP) or 5_sbgp (static BGP).
charge_mode	No	String	EIP bandwidth billing mode. <ul style="list-style-type: none"> ● TRAFFIC: billed by traffic. ● BANDWIDTH: billed by bandwidth.

Parameter	Mandatory	Type	Description
bandwidth_size	No	Integer	Bandwidth size.

Table 4-2230 RebuildDesktopsReq

Parameter	Mandatory	Type	Description
desktop_ids	Yes	Array of strings	Desktop IDs.
image_type	Yes	String	Image type.
image_id	Yes	String	Template ID.
os_type	No	String	OS type.
delay_time	No	Integer	Time reserved for users to save data during immediate recomposing (unit: minute).
message	No	String	Message sent to the user when a system disk recomposing task is delivered.
order_id	No	String	Order ID, which is used to recompose the system disk of a yearly/monthly-billed desktop. This parameter is mandatory when billed images are used.
enterprise_project_id	No	String	Enterprise project ID, which is 0 by default.

Table 4-2231 AttachInstancesReq

Parameter	Mandatory	Type	Description
desktops	No	Array of AttachInstancesDesktopInfo objects	Desktop information list.
image_type	No	String	Image type. This parameter is mandatory only when the image needs to be changed.
image_id	No	String	Template ID: This parameter is mandatory only when the image needs to be changed.

Parameter	Mandatory	Type	Description
desktop_name_policy_id	No	String	Policy ID, which is used to specify a policy for generating desktop names. If a desktop name is specified, the specified desktop name is used preferentially.

Table 4-2232 AttachInstancesDesktopInfo

Parameter	Mandatory	Type	Description
desktop_id	No	String	ID of the desktop to be assigned.
user_name	No	String	User to whom a desktop belongs. After a desktop is assigned, the user can log in to the desktop. Only letters, digits, hyphens (-), and underscores (_) are allowed. When the domain type is LITE_AD , the value contains 1 to 20 characters starting with a letter. When the domain type is LOCAL_AD , the value contains 1 to 32 characters starting with a letter or digit. A Windows desktop username can contain a maximum of 20 characters, and a Linux desktop username can contain a maximum of 32 characters. The username cannot be the same as the name of the assigned desktop. This parameter is mandatory when attach_user_infos is left blank. attach_user_infos has a higher priority.
user_email	No	String	Valid user email. After a desktop is assigned, a notification will be emailed to the user.

Parameter	Mandatory	Type	Description
user_group	No	String	<p>User group to which the desktop user belongs. This parameter is mandatory when attach_user_infos is left blank. attach_user_infos has a higher priority.</p> <ul style="list-style-type: none"> • sudo: Linux administrator group • default: default Linux user group • administrators: Windows administrator group. Administrators have full access to the desktop and can make any required changes except for forbidden operations. • users: standard Windows user group. Standard users can use most software programs and change system settings that do not affect other users.
computer_name	No	String	<p>Desktop name, which must be unique. Enter 1 to 15 characters of only letters, digits, hyphens (-), and underscores (_). It must start with a letter and cannot end with a hyphen (-).</p>
is_clear_data	No	Boolean	<p>This parameter is valid only when unbinding and binding are performed on the same user. Whether to clear desktop data during binding. The options are true (yes) and false (no). The default value is true.</p>
attach_user_infos	No	Array of AttachInstancesUserInfo objects	<p>List of users to whom desktops are to be assigned. This parameter is valid only when a multi-user desktop is assigned to multiple users.</p>

Table 4-2233 AttachInstancesUserInfo

Parameter	Mandatory	Type	Description
user_id	No	String	If type is set to USER , enter the user ID. If type is set to GROUP , enter the user group ID. The backend service checks whether the group ID exists.
user_name	No	String	<p>Name of the object assigned with a desktop. If type is set to USER, enter the username. If type is set to GROUP, enter the user group name.</p> <ul style="list-style-type: none"> If type is set to USER, the value is the username of the desktop user. After the desktop is assigned, the user can log in to the desktop. Only letters, digits, hyphens (-), and underscores (_) are allowed. When the domain type is LITE_AD, the value contains 1 to 20 characters starting with a letter. When the domain type is LOCAL_AD, the value contains 1 to 64 characters starting with a letter or digit. A Windows desktop username can contain a maximum of 20 characters, and a Linux desktop username can contain a maximum of 64 characters. The backend service checks whether the username exists. The username cannot be the same as the desktop name. If type is set to GROUP, the value can contain only letters, digits, hyphens (-), and underscores (_).

Parameter	Mandatory	Type	Description
user_group	No	String	Specifies the user group to which the desktop user belongs. <ul style="list-style-type: none"> • sudo: Linux administrator group. • default: default Linux user group. • administrators: Windows administrator group. Administrators have full access to the desktop and can make any required changes except for forbidden operations. • users: standard Windows user group. Standard users can use most software programs and change system settings that do not affect other users.
type	No	String	Object type. Options: <ul style="list-style-type: none"> • USER: user • GROUP: user group

Table 4-2234 CreateExclusiveHostsReq

Parameter	Mandatory	Type	Description
availability_zone	Yes	String	AZ.
name	No	String	Name.
apply_desktop_quantity	No	Integer	Number of desktops to be added.
quantity	Yes	Integer	Purchase quantity.
product_id	Yes	String	Product package ID.
image_volumes	Yes	Array of Volume objects	Image disks.
enterprise_project_id	No	String	Enterprise project ID, which is 0 by default.

Parameter	Mandatory	Type	Description
memory_volumes	Yes	Array of Volume objects	Storage disks.
vpc_id	Yes	String	VPC ID.
subnet_id	Yes	String	Subnet ID.
resize_exclusive_lites	No	ResizeExclusiveLitesReq object	Request for changing the number of desktops on an exclusive host.

Table 4-2235 ResizeExclusiveLitesReq

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID, which is 0 by default.
product_id	Yes	String	Product package ID.
new_quantity	Yes	Integer	Number of desktops after capacity expansion.

Table 4-2236 CreateDesktopPoolReq

Parameter	Mandatory	Type	Description
name	Yes	String	Desktop pool name, which must be unique. The desktop name can contain 1 to 255 characters, including uppercase letters, lowercase letters, digits, and hyphens (-).
type	Yes	String	Desktop pool type. The options are DYNAMIC (dynamic pool) and STATIC (static pool).
size	Yes	Integer	Desktop pool size: number of desktops to be created in the current desktop pool.
description	No	String	Desktop pool description.
availability_zone	No	String	AZ. Create a desktop in the specified AZ. If this parameter is not specified, the default AZ is used.

Parameter	Mandatory	Type	Description
product_id	Yes	String	Package ID.
flavor_id	No	String	Product specification ID. This parameter is mandatory when the AZ is an edge AZ.
image_type	Yes	String	Specifies the image type. The default value is private . <ul style="list-style-type: none"> private: Private image. gold: Public image.
image_id	Yes	String	Image ID. This parameter is used together with product_id for creating desktops using custom images.
root_volume	Yes	VolumInfo object	System disk.
data_volumes	No	Array of VolumInfo objects	Data disks.
vpc_id	No	String	Specifies the VPC ID when the desktop is created.
subnet_ids	Yes	Array of strings	ID of the subnet used for creating a desktop.
security_groups	No	Array of SecurityGroup objects	Security group used by the desktop. If no security group is specified, the security group specified in the desktop agent is used by default.
authorized_objects	No	Array of AuthorizedObjects objects	Users or user groups to be authorized.
ou_name	No	String	OU name, which is used for connecting to the AD. An OU must be created in the AD in advance.
tags	No	Array of Tag objects	Tags.
enterprise_project_id	No	String	Enterprise project ID, which is 0 by default.

Parameter	Mandatory	Type	Description
disconnected_retention_period	No	Integer	Number of minutes within which the binding relationship between a user and a desktop is retained when the dynamic pool desktop is disconnected. After the binding relationship times out, the user is automatically unbound.
enable_autoscale	No	Boolean	Specifies whether to enable auto scaling for the desktop pool. The value false indicates that auto scaling is disabled, and the value true indicates that auto scaling is enabled.
autoscale_policy	No	AutoscalePolicy object	Auto scaling policy.
desktop_name_policy_id	No	String	Policy ID, which is used to specify the desktop name generation policy.

Table 4-2237 VolumeInfo

Parameter	Mandatory	Type	Description
id	No	String	Specifies the IDs of the disks to be operated in batches.
type	Yes	String	Desktop data disk type, which must be the same as the disk type provided by the system. <ul style="list-style-type: none"> • SAS: High I/O; • SSD: Ultra-high I/O
size	Yes	Integer	Disk capacity in GB.
resource_spec_code	No	String	Specifications.

Table 4-2238 AuthorizedObjects

Parameter	Mandatory	Type	Description
object_type	Yes	String	Enumeration of bound object types. <ul style="list-style-type: none"> • USER: user • USER_GROUP: user group
object_id	Yes	String	User ID or user group ID.
object_name	Yes	String	Username or user group name.
user_group	Yes	String	Specifies the user permission group to which the desktop user belongs. <ul style="list-style-type: none"> • sudo: Linux administrator group. • default: Default Linux user group. • administrators: Windows administrator group. Administrators have full access to the desktop and can make any required changes except for forbidden operations. • users: Standard Windows user group. Standard users can use most software programs and change system settings that do not affect other users.
created_at	No	String	Creation time. The value is in UTC format, for example, 2022-05-11T11:45:42.000Z.

Table 4-2239 Tag

Parameter	Mandatory	Type	Description
key	Yes	String	Specifies the tag key. This parameter cannot be left blank and can contain a maximum of 128 Unicode characters. The value can contain uppercase letters, lowercase letters, digits, hyphens (-), and underscores (_). The value cannot contain the following characters: =*<>, /.
value	No	String	Value of a tag, which can contain a maximum of 43 Unicode characters. The value can contain uppercase letters, lowercase letters, digits, hyphens (-), and underscores (_). The value cannot contain the following characters: =*<>, /.

Table 4-2240 AutoscalePolicy

Parameter	Mandatory	Type	Description
autoscale_type	No	String	Auto scaling type. The options are as follows: ACCESS_CREATED: created during access; AUTO_CREATED: auto scaling.
max_auto_created	No	Integer	Maximum number of desktops that can be automatically created.
min_idle	No	Integer	When the number of idle desktops is less than the value of this parameter, desktops are automatically created.
once_auto_created	No	Integer	Number of desktops that can be automatically created at a time.

Table 4-2241 ExpandDesktopPoolOrderReq

Parameter	Mandatory	Type	Description
size	No	Integer	Expands the desktop pool capacity.
pool_id	Yes	String	ID of the desktop pool to be expanded.

Table 4-2242 ApplyDesktopsInternet

Parameter	Mandatory	Type	Description
desktop_ids	No	Array of strings	IDs of desktops for which network access is to be enabled.
eip_type	Yes	String	For details about the supported types, see types supported by the EIP service. You can call the API (https://support.huaweicloud.com/intl/en-us/api-eip/ShowPublicIpType.html) for query.
eip_charge_mode	Yes	String	EIP bandwidth billing mode. <ul style="list-style-type: none"> ● TRAFFIC: billed by traffic ● BANDWIDTH: billed by bandwidth
bandwidth_size	Yes	Integer	Bandwidth size, in Mbit/s. The value ranges from 1 Mbit/s to 2,000 Mbit/s by default. (The specific range may vary by region. You can see the available bandwidth range on the management console.)
count	No	Integer	Number of EIPs to be purchased. This parameter is mandatory when desktop_ids is empty. This parameter is valid when EIPs are purchased separately.

Table 4-2243 ApplySubnetBandwidthReq

Parameter	Mandatory	Type	Description
bandwidth_name	No	String	Workspace bandwidth name.
subnet_id	Yes	String	Subnet ID.
charge_mode	Yes	String	Billing mode. <ul style="list-style-type: none"> • wks_bandwidth: billed by bandwidth. This mode is supported only for yearly/monthly billing. • free: free of charge. This mode is supported only for pay-per-use billing. • wks_traffic: billed by traffic. This mode is supported only for pay-per-use billing.
bandwidth_size	No	Integer	Workspace bandwidth size.
enterprise_project_id	No	String	Enterprise project ID, which is 0 by default.

Table 4-2244 SubscribeUserSharerReq

Parameter	Mandatory	Type	Description
user_sharer_sku	Yes	String	User collaboration resource SKU code.
users	Yes	Array of User objects	Users who enable collaboration.

Table 4-2245 User

Parameter	Mandatory	Type	Description
user_id	Yes	String	User ID.
user_name	Yes	String	Username.

Table 4-2246 OrderExtendParam

Parameter	Mandatory	Type	Description
is_auto_pay	No	String	Whether to automatically pay. true : yes; false (default value): no

Response Parameters

Status code: 200

Table 4-2247 Response body parameters

Parameter	Type	Description
order_id	String	Order ID, which is returned when an order is successfully placed.

Status code: 400

Table 4-2248 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500

Table 4-2249 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.

Parameter	Type	Description
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

- POST /v2/0bec5db98280d2d02fd6c00c2de791ce/periodic/subscribe/order

```
{
  "type": "addVolumes",
  "enterprise_project_id": "0",
  "resources": [ {
    "add_volumes": {
      "desktop_id": "8d049b4e-4f1e-4ed5-b3a9-a7f0f15658a7",
      "volumes": [ {
        "type": "SAS",
        "size": 50
      } ]
    }
  } ]
}
```

- POST /v2/0bec5db98280d2d02fd6c00c2de791ce/periodic/subscribe/order

```
{
  "type": "createDesktops",
  "enterprise_project_id": "0",
  "resources": [ {
    "period_type": 2,
    "period_num": 1,
    "create_desktops": {
      "desktops": [ {
        "user_email": "test@test.com",
        "user_name": "test",
        "user_group": "sudo"
      } ],
      "desktop_type": "DEDICATED",
      "email_notification": false,
      "product_id": "workspace.k.xlarge2.uosv20pro",
      "image_type": "private",
      "image_id": "e1d65e11-861c-459d-a3a8-ab150d79befc",
      "root_volume": {
        "type": "SAS",
        "size": 80
      },
      "nics": [ {
        "subnet_id": "197c1aa4-2611-48bd-a3af-ac4ce2c17c4c"
      } ],
      "tags": [ {
        "key": "aa",
        "value": "bb"
      } ]
    }
  } ]
}
```

Example Responses

Status code: 200

Response body for placing an order in CBC.

```
{  
  "order_id" : "CS2108102036B2CAI"  
}
```

Status Codes

Status Code	Description
200	Response body for placing an order in CBC.
400	The request cannot be understood by the server due to malformed syntax.
500	An internal service error occurred. For details, see the error code description.

Error Codes

See [Error Codes](#).

4.16.2 Changing an Order

Function

Changes specifications, expands disk capacity.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2/{project_id}/periodic/{desktop_id}/change/order

Table 4-2250 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
desktop_id	Yes	String	Desktop ID.

Request Parameters

Table 4-2251 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	No	String	MIME type of the request body.

Table 4-2252 Request body parameters

Parameter	Mandatory	Type	Description
type	Yes	String	Type. Options: resizeDesktops (specification change), expandVolumes (disk capacity expansion).
period_type	No	Integer	Period type. 2 indicates monthly and 3 indicates yearly.
period_num	No	Integer	Number of periods.
resize_product_id	No	String	ID of the product after the change. This parameter is mandatory when type is set to resizeDesktops .
expand_volume_id	No	String	ID of the EVS disk to be expanded. This parameter is mandatory when type is set to expandVolumes .
expand_new_size	No	Integer	Total size of the EVS disk after capacity expansion. This parameter is mandatory when type is set to expandVolumes . The value ranges from 10 to 32,760 and must be a multiple of 10.

Parameter	Mandatory	Type	Description
new_quantity	No	Integer	Total number of desktops running on an exclusive host after the number of desktops is changed. This parameter is mandatory when jobType is set to resizeExclusiveLites .
exclusive_lites_product_id	No	String	Product ID of a desktop running on an exclusive host. This parameter is mandatory when jobType is set to resizeExclusiveLites .
enterprise_project_id	No	String	Enterprise project ID.
extend_param	No	OrderExtendParam object	Extended parameter of the order.

Table 4-2253 OrderExtendParam

Parameter	Mandatory	Type	Description
is_auto_pay	No	String	Whether to automatically pay. true : yes; false (default value): no

Response Parameters

Status code: 200

Table 4-2254 Response body parameters

Parameter	Type	Description
order_id	String	Order ID, which is returned when an order is successfully placed.

Status code: 400

Table 4-2255 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.

Parameter	Type	Description
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 409**Table 4-2256** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-2257** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
/v2/0bec5db98280d2d02fd6c00c2de791ce/periodic/f8f7fe7a-9043-44ff-815e-ad20fc779d18/change/order
```

```
{
  "type" : "resizeDesktops",
  "resize_product_id" : "workspacehost.k.large4"
}
```

Example Responses

Status code: 200

Response body for changing an order.

```
{
  "order_id" : "CS2108102036B2CAI"
}
```

Status Codes

Status Code	Description
200	Response body for changing an order.
400	The request cannot be understood by the server due to malformed syntax.
409	Operation conflict.
500	Internal server error.

Error Codes

See [Error Codes](#).

4.16.3 Batch Changing Orders of Yearly/Monthly Desktops

Function

Changes yearly/monthly desktop orders in batches.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2/{project_id}/periodic/change/batch-order

Table 4-2258 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-2259 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	No	String	MIME type of the request body.

Table 4-2260 Request body parameters

Parameter	Mandatory	Type	Description
type	No	String	Order placement type. <ul style="list-style-type: none"> • ADD_VOLUME: Add a disk. • EXTEND_VOLUME: expands the disk capacity. • RESIZE: Modify specifications. • CHANGE_IMAGE: switches images. • ADD_SUB_RESOURCES: purchasing desktop collaboration resources • DELETE_SUB_RESOURCES: unsubscribes from desktop collaboration resources.
add_volume_param	No	EstimateAddVolumeRequestBody object	Request body for querying the price for adding a disk or switching an image in a yearly/monthly desktop pool.
extend_volume_param	No	EstimateExtendVolumeRequestBody object	Request body for querying the price for expanding disk capacity in a yearly/monthly desktop pool.
resize_param	No	CreateResizeOrderRequestBody object	Request body for querying the price for changing the specifications of a yearly/monthly subscription.

Parameter	Mandatory	Type	Description
change_image_param	No	CreateChangeImageOrderRequestBody object	Request body for querying the price for recomposing the system disk of a yearly/monthly subscription.
add_sub_resources_param	No	EstimateAddSubResourcesRequestBody object	Request body for querying the price for adding supplementary resources to a yearly/monthly subscription.
delete_sub_resources_param	No	CreateDeleteSubResourcesOrderRequestBody object	Request body for querying the price for deleting supplementary resources of a yearly/monthly subscription.

Table 4-2261 EstimateAddVolumeRequestBody

Parameter	Mandatory	Type	Description
desktop_pool_id	No	String	Desktop pool ID. If both desktop_pool_id and desktop_ids are set, the value of desktop_ids is used. The two parameters cannot be empty at the same time.
desktop_ids	No	Array of strings	IDs of yearly/monthly desktops. Common desktop IDs and pooled desktop IDs cannot coexist.
promotion_plan_id	No	String	Promotion plan ID.
volume_type	Yes	String	Type of the newly added disk.
volume_size	Yes	Integer	Size of the newly added disk.

Table 4-2262 EstimateExtendVolumeRequestBody

Parameter	Mandatory	Type	Description
desktop_pool_id	No	String	Desktop pool ID. If both desktop_pool_id and desktop_ids are set, the value of desktop_ids is used. The two parameters cannot be empty at the same time.

Parameter	Mandatory	Type	Description
desktop_ids	No	Array of strings	IDs of yearly/monthly desktops. Common desktop IDs and pooled desktop IDs cannot coexist.
promotion_plan_id	No	String	Promotion plan ID.
desktop_pool_disk_id	Yes	String	ID of the disk to be expanded in the desktop pool.
new_size	Yes	Integer	Disk size after capacity expansion.

Table 4-2263 CreateResizeOrderRequestBody

Parameter	Mandatory	Type	Description
desktop_pool_id	No	String	Desktop pool ID. If both desktop_pool_id and desktop_ids are set, the value of desktop_ids is used. The two parameters cannot be empty at the same time.
desktop_ids	No	Array of strings	IDs of yearly/monthly desktops. Common desktop IDs and pooled desktop IDs cannot coexist.
promotion_plan_id	No	String	Promotion plan ID.
product_id	Yes	String	Product ID of the target specifications.
mode	No	String	Whether specifications can be modified when the desktop is started. The value is fixed to STOP_DESKTOP . If the desktop has been started, the desktop will be stopped before the specifications are modified.

Table 4-2264 CreateChangelImageOrderRequestBody

Parameter	Mandatory	Type	Description
desktop_pool_id	No	String	Desktop pool ID. If both desktop_pool_id and desktop_ids are set, the value of desktop_ids is used. The two parameters cannot be empty at the same time.
desktop_ids	No	Array of strings	IDs of yearly/monthly desktops. Common desktop IDs and pooled desktop IDs cannot coexist.
promotion_plan_id	No	String	Promotion plan ID.
image_spec_code	No	String	specCode of the KooGallery image. This parameter will be disabled soon. If both image_spec_code and image_id are set, the value of image_id is used. The two parameters cannot be empty at the same time.
image_id	No	String	KooGallery image ID. image_id is recommended.
delay_time	No	Integer	Time reserved for users to save data during immediate recomposing (unit: minute).
message	No	String	Message sent to a user when a system disk recomposing task is delivered.

Table 4-2265 EstimateAddSubResourcesRequestBody

Parameter	Mandatory	Type	Description
desktop_pool_id	No	String	Desktop pool ID. If both desktop_pool_id and desktop_ids are set, the value of desktop_ids is used. The two parameters cannot be empty at the same time.
desktop_ids	No	Array of strings	IDs of yearly/monthly desktops. Common desktop IDs and pooled desktop IDs cannot coexist.

Parameter	Mandatory	Type	Description
promotion_plan_id	No	String	Promotion plan ID.
sub_resource_sku	Yes	String	Add an appendant resource SKU code.

Table 4-2266 CreateDeleteSubResourcesOrderRequestBody

Parameter	Mandatory	Type	Description
desktop_pool_id	No	String	Desktop pool ID. If both desktop_pool_id and desktop_ids are set, the value of desktop_ids is used. The two parameters cannot be empty at the same time.
desktop_ids	No	Array of strings	IDs of yearly/monthly desktops. Common desktop IDs and pooled desktop IDs cannot coexist.
promotion_plan_id	No	String	Promotion plan ID.
sub_resource_type	Yes	String	Type of the appendant resource to be deleted: DESKTOP_SHARER (desktop collaboration resource)

Response Parameters

Status code: 200

Table 4-2267 Response body parameters

Parameter	Type	Description
orders	Array of OrderV5 objects	Result of generating orders in batches.

Table 4-2268 OrderV5

Parameter	Type	Description
order_id	String	Order ID.

Parameter	Type	Description
order_status	Integer	Order status. The value can be 0 (initialized), 1 (to be reviewed), 2 (to be refunded), 3 (being processed), 4 (canceled), 5 (completed), 6 (to be paid); 7 (being compensated), 8 (to be approved), 9 (to be confirmed), 10 (to be shipped), 11 (to be received), 12 (to be picked up), 13 (being replaced), or 14 (to be received by the seller).
result	String	Result. The value can be SUCCESS or FAIL .
result_code	String	If result is set to FAIL , this parameter is mandatory, indicating the failure cause of the order.
result_msg	String	Failure information, which is used together with result_code .

Status code: 400**Table 4-2269** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 409**Table 4-2270** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.

Parameter	Type	Description
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500

Table 4-2271 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
{
  "type": "ADD_VOLUME",
  "add_volume_param": {
    "desktop_pool_id": "b046ac8e-0994-4c09-a8a8-bd989d218120",
    "volume_type": "SAS",
    "volume_size": 10
  }
}
```

Example Responses

Status code: 200

Response body for placing orders on yearly/monthly desktops in batches.

```
{
  "orders": [ {
    "order_id": "CS25052414519W9OP",
    "order_status": 6
  } ]
}
```

Status Codes

Status Code	Description
200	Response body for placing orders on yearly/monthly desktops in batches.
400	The request cannot be understood by the server due to malformed syntax.
409	Operation conflict.
500	Internal server error.

Error Codes

See [Error Codes](#).

4.16.4 Batch Changing Orders of a Yearly/Monthly Desktop Pool

Function

Changes yearly/monthly desktop pool orders in batches.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2/{project_id}/desktop-pool/periodic/change/order

Table 4-2272 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-2273 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	No	String	MIME type of the request body.

Table 4-2274 Request body parameters

Parameter	Mandatory	Type	Description
type	No	String	Order placement type. <ul style="list-style-type: none"> • ADD_VOLUME: Add a disk. • EXTEND_VOLUME: expands the disk capacity. • RESIZE: Modify specifications. • CHANGE_IMAGE: switches images. • ADD_SUB_RESOURCES: purchasing desktop collaboration resources • DELETE_SUB_RESOURCES: unsubscribes from desktop collaboration resources.
add_volume_param	No	EstimateAddVolumeRequestBody object	Request body for querying the price for adding a disk or switching an image in a yearly/monthly desktop pool.
extend_volume_param	No	EstimateExtendVolumeRequestBody object	Request body for querying the price for expanding disk capacity in a yearly/monthly desktop pool.
resize_param	No	CreateResizeOrderRequestBody object	Request body for querying the price for changing the specifications of a yearly/monthly subscription.

Parameter	Mandatory	Type	Description
change_image_param	No	CreateChangeImageOrderRequestBody object	Request body for querying the price for recomposing the system disk of a yearly/monthly subscription.
add_sub_resources_param	No	EstimateAddSubResourcesRequestBody object	Request body for querying the price for adding supplementary resources to a yearly/monthly subscription.
delete_sub_resources_param	No	CreateDeleteSubResourcesOrderRequestBody object	Request body for querying the price for deleting supplementary resources of a yearly/monthly subscription.

Table 4-2275 EstimateAddVolumeRequestBody

Parameter	Mandatory	Type	Description
desktop_pool_id	No	String	Desktop pool ID. If both desktop_pool_id and desktop_ids are set, the value of desktop_ids is used. The two parameters cannot be empty at the same time.
desktop_ids	No	Array of strings	IDs of yearly/monthly desktops. Common desktop IDs and pooled desktop IDs cannot coexist.
promotion_plan_id	No	String	Promotion plan ID.
volume_type	Yes	String	Type of the newly added disk.
volume_size	Yes	Integer	Size of the newly added disk.

Table 4-2276 EstimateExtendVolumeRequestBody

Parameter	Mandatory	Type	Description
desktop_pool_id	No	String	Desktop pool ID. If both desktop_pool_id and desktop_ids are set, the value of desktop_ids is used. The two parameters cannot be empty at the same time.

Parameter	Mandatory	Type	Description
desktop_ids	No	Array of strings	IDs of yearly/monthly desktops. Common desktop IDs and pooled desktop IDs cannot coexist.
promotion_plan_id	No	String	Promotion plan ID.
desktop_pool_disk_id	Yes	String	ID of the disk to be expanded in the desktop pool.
new_size	Yes	Integer	Disk size after capacity expansion.

Table 4-2277 CreateResizeOrderRequestBody

Parameter	Mandatory	Type	Description
desktop_pool_id	No	String	Desktop pool ID. If both desktop_pool_id and desktop_ids are set, the value of desktop_ids is used. The two parameters cannot be empty at the same time.
desktop_ids	No	Array of strings	IDs of yearly/monthly desktops. Common desktop IDs and pooled desktop IDs cannot coexist.
promotion_plan_id	No	String	Promotion plan ID.
product_id	Yes	String	Product ID of the target specifications.
mode	No	String	Whether specifications can be modified when the desktop is started. The value is fixed to STOP_DESKTOP . If the desktop has been started, the desktop will be stopped before the specifications are modified.

Table 4-2278 CreateChangelImageOrderRequestBody

Parameter	Mandatory	Type	Description
desktop_pool_id	No	String	Desktop pool ID. If both desktop_pool_id and desktop_ids are set, the value of desktop_ids is used. The two parameters cannot be empty at the same time.
desktop_ids	No	Array of strings	IDs of yearly/monthly desktops. Common desktop IDs and pooled desktop IDs cannot coexist.
promotion_plan_id	No	String	Promotion plan ID.
image_spec_code	No	String	specCode of the KooGallery image. This parameter will be disabled soon. If both image_spec_code and image_id are set, the value of image_id is used. The two parameters cannot be empty at the same time.
image_id	No	String	KooGallery image ID. image_id is recommended.
delay_time	No	Integer	Time reserved for users to save data during immediate recomposing (unit: minute).
message	No	String	Message sent to a user when a system disk recomposing task is delivered.

Table 4-2279 EstimateAddSubResourcesRequestBody

Parameter	Mandatory	Type	Description
desktop_pool_id	No	String	Desktop pool ID. If both desktop_pool_id and desktop_ids are set, the value of desktop_ids is used. The two parameters cannot be empty at the same time.
desktop_ids	No	Array of strings	IDs of yearly/monthly desktops. Common desktop IDs and pooled desktop IDs cannot coexist.

Parameter	Mandatory	Type	Description
promotion_plan_id	No	String	Promotion plan ID.
sub_resource_sku	Yes	String	Add an appendant resource SKU code.

Table 4-2280 CreateDeleteSubResourcesOrderRequestBody

Parameter	Mandatory	Type	Description
desktop_pool_id	No	String	Desktop pool ID. If both desktop_pool_id and desktop_ids are set, the value of desktop_ids is used. The two parameters cannot be empty at the same time.
desktop_ids	No	Array of strings	IDs of yearly/monthly desktops. Common desktop IDs and pooled desktop IDs cannot coexist.
promotion_plan_id	No	String	Promotion plan ID.
sub_resource_type	Yes	String	Type of the appendant resource to be deleted: DESKTOP_SHARER (desktop collaboration resource)

Response Parameters

Status code: 200

Table 4-2281 Response body parameters

Parameter	Type	Description
orders	Array of OrderV5 objects	Result of generating orders in batches.

Table 4-2282 OrderV5

Parameter	Type	Description
order_id	String	Order ID.

Parameter	Type	Description
order_status	Integer	Order status. The value can be 0 (initialized), 1 (to be reviewed), 2 (to be refunded), 3 (being processed), 4 (canceled), 5 (completed), 6 (to be paid); 7 (being compensated), 8 (to be approved), 9 (to be confirmed), 10 (to be shipped), 11 (to be received), 12 (to be picked up), 13 (being replaced), or 14 (to be received by the seller).
result	String	Result. The value can be SUCCESS or FAIL .
result_code	String	If result is set to FAIL , this parameter is mandatory, indicating the failure cause of the order.
result_msg	String	Failure information, which is used together with result_code .

Status code: 400**Table 4-2283** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 409**Table 4-2284** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.

Parameter	Type	Description
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500

Table 4-2285 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
{
  "type": "ADD_VOLUME",
  "add_volume_param": {
    "desktop_pool_id": "b046ac8e-0994-4c09-a8a8-bd989d218120",
    "volume_type": "SAS",
    "volume_size": 10
  }
}
```

Example Responses

Status code: 200

Response body for changing yearly/monthly desktop pool orders in batches.

```
{
  "orders": [ {
    "order_id": "CS25052414519W9OP",
    "order_status": 6
  } ]
}
```

Status Codes

Status Code	Description
200	Response body for changing yearly/monthly desktop pool orders in batches.
400	The request cannot be understood by the server due to malformed syntax.
409	Operation conflict.
500	Internal server error.

Error Codes

See [Error Codes](#).

4.16.5 Placing an Order on Changing the Bandwidth of Yearly/Monthly Workspace

Function

Places an order on changing the bandwidth of yearly/monthly Workspace.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2/{project_id}/bandwidths/{bandwidth_id}/periodic/change/order

Table 4-2286 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
bandwidth_id	Yes	String	Workspace bandwidth ID.

Request Parameters

Table 4-2287 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	No	String	MIME type of the request body.

Table 4-2288 Request body parameters

Parameter	Mandatory	Type	Description
bandwidth_name	No	String	Workspace bandwidth name.
bandwidth_size	Yes	String	Workspace bandwidth to be changed.
enterprise_project_id	No	String	Enterprise project ID.
extend_param	No	OrderExtendParam object	Extended parameter of the order.

Table 4-2289 OrderExtendParam

Parameter	Mandatory	Type	Description
is_auto_pay	No	String	Whether to automatically pay. true : yes; false (default value): no

Response Parameters

Status code: 200

Table 4-2290 Response body parameters

Parameter	Type	Description
order_id	String	Order ID, which is returned when an order is successfully placed.

Status code: 400**Table 4-2291** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 409**Table 4-2292** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500

Table 4-2293 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
{
  "bandwidth_name" : "string",
  "bandwidth_size" : "string",
  "enterprise_project_id" : "string",
  "extend_param" : {
    "is_auto_pay" : "string"
  }
}
```

Example Responses

Status code: 200

Response body for placing an order on changing the bandwidth of yearly/monthly Workspace.

```
{
  "order_id" : "string"
}
```

Status Codes

Status Code	Description
200	Response body for placing an order on changing the bandwidth of yearly/monthly Workspace.
400	The request cannot be understood by the server due to malformed syntax.
409	Operation conflict.
500	Internal server error.

Error Codes

See [Error Codes](#).

4.16.6 Creating a Desktop Order

Function

Creates a desktop order.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2/{project_id}/desktops/orders/subscribe

Table 4-2294 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-2295 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 4-2296 Request body parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID, which is 0 by default.
hour_package_resources	Yes	Array of HourPackageResource objects	Hourly package resource.
extend_param	No	OrderExtendParam object	Extended parameter of the order.

Table 4-2297 HourPackageResource

Parameter	Mandatory	Type	Description
period_type	No	Integer	Subscription period type. The value can be 2 (monthly) or 3 (yearly). This parameter is mandatory.
period_num	No	Integer	Number of subscription periods.
is_auto_renew	No	Integer	Whether auto-renewal is enabled.
used_up_policy	No	String	Duration exhaustion policy: <ul style="list-style-type: none"> • SHUTDOWN_OR_HIBERNATE: automatic shutdown or hibernation • PAY_PER_USE: automatic pay-per-use billing
create_desktops	No	CreateDesktopReq object	Request for creating a desktop.

Table 4-2298 CreateDesktopReq

Parameter	Mandatory	Type	Description
desktop_type	Yes	String	Specifies the cloud desktop type. <ul style="list-style-type: none"> • DEDICATED: dedicated desktop for a single user. • SHARED: Multiple users share the desktop.
availability_zone	No	String	AZ. Creates a desktop in the specified AZ. If this parameter is not specified, the default AZ is used.
product_id	Yes	String	Package ID.
image_type	Yes	String	Image type. The default value is private . <ul style="list-style-type: none"> • private: a private image • gold: a public image
image_id	Yes	String	Image ID. This parameter is used together with product_id for creating desktops using custom images.

Parameter	Mandatory	Type	Description
root_volume	Yes	Volume object	System disk.
data_volumes	No	Array of Volume objects	Data disks.
nics	No	Array of Nic objects	Information about the NIC corresponding to the desktop. If this parameter is not specified, the default NIC is used.
security_groups	No	Array of SecurityGroup objects	Security group used by the desktop. If no security group is specified, the security group specified in the desktop agent is used by default.
desktops	No	Array of Desktop objects	Parameters used for creating a desktop. The value contains 1 to 50 characters. Currently, a batch of desktops cannot have different configurations. The configurations of all desktops must be the same as those of the first desktop. If no parameter is specified for the first desktop, the outer parameters with the same name are used.
desktop_name	No	String	This parameter is used together with size . If size is set to 1 , this parameter indicates the desktop name, which consists of 1 to 15 characters. If size is set to a value greater than 1 , this parameter indicates the desktop name prefix, which consists of 1 to 13 characters.
desktop_ips	No	Array of strings	IP addresses assigned to the desktop. The value ranges from 0 to 100.

Parameter	Mandatory	Type	Description
size	No	Integer	Number of desktops that are not assigned to users. This parameter cannot be used together with desktops . It is used together with desktop_name .
email_notification	No	Boolean	Whether to send an email to notify the desktop user after a desktop is created. The default value is true .
enterprise_project_id	No	String	Enterprise project ID, which is 0 by default.
tags	No	Array of Tag objects	Tags.
apply_shared_vpc_dedicated_param	No	ApplySharedVpcDedicatedParam object	Input parameter of the shared VPC Direct Connect.
eip	No	Eip object	EIP information.
desktop_name_policy_id	No	String	Policy ID, which is used to specify the desktop name generation policy. If a desktop name is specified, the specified desktop name is used preferentially.
hour_package_product_id	No	String	Hourly desktop package ID.
hour_package_offering_id	No	String	Offering ID of an hourly desktop package.

Table 4-2299 Volume

Parameter	Mandatory	Type	Description
type	Yes	String	Desktop data disk type, which must be the same as the disk type provided by the system. <ul style="list-style-type: none"> • SAS: high I/O • SSD: ultra-high I/O • GPSSD: general-purpose SSD

Parameter	Mandatory	Type	Description
size	Yes	Integer	Disk capacity in GB. The system disk size ranges from 80 to 32760, and the data disk size ranges from 10 to 32760. The value must be a multiple of 10.

Table 4-2300 Nic

Parameter	Mandatory	Type	Description
subnet_id	Yes	String	ID of the subnet on which the NIC works.

Table 4-2301 SecurityGroup

Parameter	Mandatory	Type	Description
id	Yes	String	Security group ID.

Table 4-2302 Desktop

Parameter	Mandatory	Type	Description
user_name	Yes	String	User to whom a desktop belongs. After a desktop is created, the user can log in to the desktop. Only letters, digits, hyphens (-), and underscores (_) are allowed. When the domain type is LITE_AD , the value contains 1 to 20 characters starting with a letter. When the domain type is LOCAL_AD , the value contains 1 to 32 characters starting with a letter or digit. A Windows desktop username can contain a maximum of 20 characters, and a Linux desktop username can contain a maximum of 32 characters.
user_email	No	String	Valid user email. After a desktop is created, the system informs users through emails.

Parameter	Mandatory	Type	Description
user_phone	No	String	Mobile number of a valid user.
user_group	No	String	User group to which the desktop user belongs. <ul style="list-style-type: none"> • sudo: Linux administrator group. • default: Default Linux user group. • administrators: Windows administrator group. Administrators have full access to the desktop and can make any required changes except for forbidden operations. • users: standard Windows user group. Standard users can use most software programs and change system settings that do not affect other users.
computer_name	No	String	Desktop name, which must be unique. The desktop name can contain 1 to 15 characters in letters, digits, and hyphens (-). It must start with a letter or digit and cannot end with a hyphen (-).
os_host_name	No	String	Computer name in the OS.
desktop_name_prefix	No	String	Desktop name prefix. This parameter takes effect when computer_name is not specified.

Table 4-2303 Tag

Parameter	Mandatory	Type	Description
key	Yes	String	Specifies the tag key. This parameter cannot be left blank and can contain a maximum of 128 Unicode characters. The value can contain uppercase letters, lowercase letters, digits, hyphens (-), and underscores (_). The value cannot contain the following characters: =*<>, /.
value	No	String	Value of a tag, which can contain a maximum of 43 Unicode characters. The value can contain uppercase letters, lowercase letters, digits, hyphens (-), and underscores (_). The value cannot contain the following characters: =*<>, /.

Table 4-2304 ApplySharedVpcDedicatedParam

Parameter	Mandatory	Type	Description
address	No	String	Shared VPC Direct Connect address specified by the tenant.
port	No	Integer	Shared VPC Direct Connect address port specified by the tenant.
availability_zone	No	Array of strings	AZ used for subscribing to service resources. By default, two AZs are randomly used.

Table 4-2305 Eip

Parameter	Mandatory	Type	Description
id	No	String	ID of the EIP bound to the desktop. If this parameter is specified, the EIP is preferentially bound.

Parameter	Mandatory	Type	Description
type	No	String	EIP type. The value can be 5_bgp (dynamic BGP) or 5_sbgp (static BGP).
charge_mode	No	String	EIP bandwidth billing mode. <ul style="list-style-type: none"> • TRAFFIC: billed by traffic. • BANDWIDTH: billed by bandwidth.
bandwidth_size	No	Integer	Bandwidth size.

Table 4-2306 OrderExtendParam

Parameter	Mandatory	Type	Description
is_auto_pay	No	String	Whether to automatically pay. true : yes; false (default value): no

Response Parameters

Status code: 200

Table 4-2307 Response body parameters

Parameter	Type	Description
order_id	String	Order ID, which is returned when an order is successfully placed.

Status code: 400

Table 4-2308 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.

Parameter	Type	Description
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 409**Table 4-2309** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-2310** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
{
  "enterprise_project_id" : "0",
  "hour_package_resources" : [ {
    "period_type" : 2,
    "period_num" : 1,
    "is_auto_renew" : 0,
```

```

"create_desktops" : {
  "desktop_type" : "DEDICATED",
  "email_notification" : true,
  "nics" : [ {
    "subnet_id" : "624afebf-bb07-4b20-89b1-e0a02f1137cd"
  } ],
  "tenantId" : "60ec8cdfb5974ddb8f75ba30952d52eb",
  "product_id" : "workspace.x86.flexus.xlarge2",
  "enterprise_project_id" : "0",
  "image_type" : "market",
  "image_id" : "4e8aebc3-f4dc-4789-a785-0a1769d44c0d",
  "root_volume" : {
    "type" : "SAS",
    "size" : 80
  },
  "data_volumes" : [ {
    "type" : "SAS",
    "size" : 10
  } ],
  "desktops" : [ {
    "user_name" : "hzh",
    "user_group" : "administrators"
  } ],
  "hour_package_product_id" : "workspace.x86.flexus.xlarge2.120hours"
},
"used_up_policy" : "SHUTDOWN_OR_HIBERNATE"
} ]
}

```

Example Responses

Status code: 200

Response body for placing an order.

```

{
  "order_id" : "string"
}

```

Status Codes

Status Code	Description
200	Response body for placing an order.
400	The request cannot be understood by the server due to malformed syntax.
409	Operation conflict.
500	Internal server error.

Error Codes

See [Error Codes](#).

4.17 Inquiry

4.17.1 Querying the Price for Changing the Images of Yearly/Monthly Desktops in Batches

Function

Queries the price for changing the images of yearly/monthly desktops in batches, from free images to paid ones.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2/{project_id}/periodic/inquiry/change-image

Table 4-2311 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-2312 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	No	String	MIME type of the request body.

Table 4-2313 Request body parameters

Parameter	Mandatory	Type	Description
desktop_pool_id	No	String	Desktop pool ID. If both desktop_pool_id and desktop_ids are set, the value of desktop_ids is used. The two parameters cannot be empty at the same time.
desktop_ids	No	Array of strings	IDs of yearly/monthly desktops. Common desktop IDs and pooled desktop IDs cannot coexist.
promotion_plan_id	No	String	Promotion plan ID.
image_spec_code	No	String	specCode of the KooGallery image. This parameter will be disabled soon. If both image_spec_code and image_id are set, the value of image_id is used. The two parameters cannot be empty at the same time.
image_id	No	String	KooGallery image ID. image_id is recommended.

Response Parameters

Status code: 200

Table 4-2314 Response body parameters

Parameter	Type	Description
currency	String	Currency, for example, USD.
cloud_service_rating_results	Array of CloudServiceRatingResult objects	Price query result.

Table 4-2315 CloudServiceRatingResult

Parameter	Type	Description
order_request_id	String	orderRequestId in the order request body.

Parameter	Type	Description
official_website_rating_result	OfficialWebsiteRatingResult object	Result.
optional_discount_rating_results	Array of OptionalDiscountRatingResult objects	Discounted price query result.

Table 4-2316 OfficialWebsiteRatingResult

Parameter	Type	Description
amount	Number	Total order amount, that is, the final order amount after discount (reserved instances include only the prepaid part).
official_website_amount	Number	List price (reserved instances include only the prepaid part).
original_amount	Number	Original total order amount, that is, the total order amount before discount (reserved instances include only the prepaid part).
official_website_discount_amount	Number	List price discount (reserved instances include only the prepaid part).
optional_discount_amount	Number	Discount available (reserved instances include only the prepaid part).
discount_amount	Number	Total discount (reserved instances include only the prepaid part).
per_amount	Number	Total installment amount, which is available only when the installment period types of the products for batch price query are the same.
per_discount_amount	Number	Discount of the total installment amount (perDiscountAmount = perOriginalAmount - perAmount).
per_original_amount	Number	Original price of the total installment amount.
per_period_type	Integer	Installment period type. 2 : monthly; 4 : hourly.
measure_id	Integer	Measurement unit.

Parameter	Type	Description
product_rating_results	Array of ProductResult objects	Product price query result.

Table 4-2317 OptionalDiscountRatingResult

Parameter	Type	Description
discount_id	String	Discount ID.
amount	Number	Total order amount, that is, the final order amount after discount (reserved instances include only the prepaid part).
official_website_amount	Number	List price (reserved instances include only the prepaid part).
original_amount	Number	Original total order amount, that is, the total order amount before discount (reserved instances include only the prepaid part).
official_website_discount_amount	Number	List price discount (reserved instances include only the prepaid part).
optional_discount_amount	Number	Discount available (reserved instances include only the prepaid part).
discount_amount	Number	Total discount (reserved instances include only the prepaid part).
per_amount	Number	Total installment amount, which is available only when the installment period types of the products for batch price query are the same.
per_discount_amount	Number	Discount of the total installment amount (perDiscountAmount = perOriginalAmount - perAmount).
per_original_amount	Number	Original price of the total installment amount.
per_official_website_amount	Number	List price of the total installment amount, which is available only when the installment period types of the products for batch price query are the same.

Parameter	Type	Description
per_official_website_discount_amount	Number	List price discount of the total installment amount, which is available only when the installment period types of the products for batch price query are the same. perOfficialWebsiteDiscountAmount = perOriginalAmount - perOfficialWebsiteAmount.
per_optional_discount_amount	Number	Available discount of the installment amount, including commercial discount, partner discount, promotion discount, and coupon discount. This parameter is available only when the installment period types of the products for batch price query are the same. perOptionalDiscountAmount = perOfficialWebsiteAmount - perAmount.
per_period_type	Integer	Installment period type. 2: monthly; 4: hourly.
measure_id	Integer	Measurement unit.
discount_type	Integer	Discount type.
discount_name	String	Discount name.
best_offer	Integer	Whether the discount is the optimal discount. 0: no (default value). 1: yes. The optimal discount is selected from the commercial discount, partner discount, and promotion discount (if the discount amounts are the same, the priority is: commercial discount > partner discount > promotion discount). Coupon discounts are not included in the calculation of the optimal discount.
same_ratio_flag	Integer	sameRatioFlag.
discount_ratio	Number	Discount rate. A discount rate needs to be specified if sameRatioFlag is set to 1 .
promotion_info	String	Basic discount information. After determining the discount, the API caller uses this parameter to fill in the field promotionInfo in the API for subscription or change.

Parameter	Type	Description
product_rating_results	Array of ProductResult objects	Product price query result.

Table 4-2318 ProductResult

Parameter	Type	Description
id	String	ID in the request body.
product_id	String	Product ID.
amount	Number	Total amount, that is, the final amount after discount (reserved instances include only the prepaid part).
discount_amount	Number	Discount (reserved instances include only the prepaid part).
original_amount	Number	Original total amount, that is, the total amount before discount (reserved instances include only the prepaid part).
official_website_amount	Number	List price (This field is not available for all APIs. Reserved instances include only the prepaid part.)
official_website_discount_amount	Number	List price discount (This field is not available for all APIs. Reserved instances include only the prepaid part.)
optional_discount_amount	Number	Available discount, including commercial discount, partner discount, promotion discount, and coupon discount. (This field is not available for all APIs. Reserved instances include only the prepaid part.)
per_amount	Number	Total installment amount, which is available only when the installment period types of the products for batch price query are the same.
per_discount_amount	Number	Discount of the total installment amount (perDiscountAmount = perOriginalAmount - perAmount).
per_original_amount	Number	Original price of the total installment amount.

Parameter	Type	Description
per_official_website_amount	Number	List price for the installment payment amount.
per_official_website_discount_amount	Number	List price discount of the installment amount, that is, perOfficialWebsiteDiscountAmount = perOriginalAmount - perOfficialWebsiteAmount.
per_optional_discount_amount	Number	Available discount of the installment amount, including commercial discount, partner discount, promotion discount, and coupon discount. perOptionalDiscountAmount = perOfficialWebsiteAmount - perAmount.
per_period_type	Integer	Installment period type. 2: monthly; 4: hourly.
measure_id	Integer	Measurement unit.
extend_params	String	Extended parameter.

Status code: 400**Table 4-2319** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 409

Table 4-2320 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-2321** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
{
  "desktop_pool_id" : "string",
  "desktop_ids" : [ "string" ],
  "promotion_plan_id" : "string",
  "image_spec_code" : "string",
  "image_id" : "string"
}
```

Example Responses

Status code: 200

Response body for querying the price for yearly/monthly desktop pools in batches.

```
{
  "currency" : "string",
  "cloud_service_rating_results" : [ {
    "order_request_id" : "string",
    "official_website_rating_result" : {
      "amount" : 0,

```

```

"official_website_amount" : 0,
"original_amount" : 0,
"official_website_discount_amount" : 0,
"optional_discount_amount" : 0,
"discount_amount" : 0,
"per_amount" : 0,
"per_discount_amount" : 0,
"per_original_amount" : 0,
"per_period_type" : 0,
"measure_id" : 0,
"product_rating_results" : [ {
  "id" : "string",
  "product_id" : "string",
  "amount" : 0,
  "discount_amount" : 0,
  "original_amount" : 0,
  "official_website_amount" : 0,
  "official_website_discount_amount" : 0,
  "optional_discount_amount" : 0,
  "per_amount" : 0,
  "per_discount_amount" : 0,
  "per_original_amount" : 0,
  "per_official_website_amount" : 0,
  "per_official_website_discount_amount" : 0,
  "per_optional_discount_amount" : 0,
  "per_period_type" : 0,
  "measure_id" : 0,
  "extend_params" : "string"
} ]
},
"optional_discount_rating_results" : [ {
  "discount_id" : "string",
  "amount" : 0,
  "official_website_amount" : 0,
  "original_amount" : 0,
  "official_website_discount_amount" : 0,
  "optional_discount_amount" : 0,
  "discount_amount" : 0,
  "per_amount" : 0,
  "per_discount_amount" : 0,
  "per_original_amount" : 0,
  "per_official_website_amount" : 0,
  "per_official_website_discount_amount" : 0,
  "per_optional_discount_amount" : 0,
  "per_period_type" : 0,
  "measure_id" : 0,
  "discount_type" : 0,
  "discount_name" : "string",
  "best_offer" : 0,
  "same_ratio_flag" : 0,
  "discount_ratio" : 0,
  "promotion_info" : "string",
  "product_rating_results" : [ {
    "id" : "string",
    "product_id" : "string",
    "amount" : 0,
    "discount_amount" : 0,
    "original_amount" : 0,
    "official_website_amount" : 0,
    "official_website_discount_amount" : 0,
    "optional_discount_amount" : 0,
    "per_amount" : 0,
    "per_discount_amount" : 0,
    "per_original_amount" : 0,
    "per_official_website_amount" : 0,
    "per_official_website_discount_amount" : 0,
    "per_optional_discount_amount" : 0,
    "per_period_type" : 0,
    "measure_id" : 0,

```



```
"extend_params" : "string"  
  }]  
  }]  
  }]  
}
```

Status Codes

Status Code	Description
200	Response body for querying the price for yearly/monthly desktop pools in batches.
400	The request cannot be understood by the server due to malformed syntax.
409	Operation conflict.
500	Internal server error.

Error Codes

See [Error Codes](#).

4.17.2 Querying the Price for Adding a Single Disk to Yearly/Monthly Desktop Pools in Batches

Function

Queries the price for adding a single disk to yearly/monthly desktop pools in batches.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2/{project_id}/desktop-pool/periodic/inquiry/add-volume

Table 4-2322 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-2323 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	No	String	MIME type of the request body.

Table 4-2324 Request body parameters

Parameter	Mandatory	Type	Description
desktop_pool_id	No	String	Desktop pool ID. If both desktop_pool_id and desktop_ids are set, the value of desktop_ids is used. The two parameters cannot be empty at the same time.
desktop_ids	No	Array of strings	IDs of yearly/monthly desktops. Common desktop IDs and pooled desktop IDs cannot coexist.
promotion_plan_id	No	String	Promotion plan ID.
volume_type	Yes	String	Type of the newly added disk.
volume_size	Yes	Integer	Size of the newly added disk.

Response Parameters

Status code: 200

Table 4-2325 Response body parameters

Parameter	Type	Description
currency	String	Currency, for example, USD.

Parameter	Type	Description
cloud_service_rating_results	Array of CloudServiceRatingResult objects	Price query result.

Table 4-2326 CloudServiceRatingResult

Parameter	Type	Description
order_request_id	String	orderRequestId in the order request body.
official_website_rating_result	OfficialWebsiteRatingResult object	Result.
optional_discount_rating_results	Array of OptionalDiscountRatingResult objects	Discounted price query result.

Table 4-2327 OfficialWebsiteRatingResult

Parameter	Type	Description
amount	Number	Total order amount, that is, the final order amount after discount (reserved instances include only the prepaid part).
official_website_amount	Number	List price (reserved instances include only the prepaid part).
original_amount	Number	Original total order amount, that is, the total order amount before discount (reserved instances include only the prepaid part).
official_website_discount_amount	Number	List price discount (reserved instances include only the prepaid part).
optional_discount_amount	Number	Discount available (reserved instances include only the prepaid part).
discount_amount	Number	Total discount (reserved instances include only the prepaid part).
per_amount	Number	Total installment amount, which is available only when the installment period types of the products for batch price query are the same.

Parameter	Type	Description
per_discount_amount	Number	Discount of the total installment amount (perDiscountAmount = perOriginalAmount - perAmount).
per_original_amount	Number	Original price of the total installment amount.
per_period_type	Integer	Installment period type. 2 : monthly; 4 : hourly.
measure_id	Integer	Measurement unit.
product_rating_results	Array of ProductResult objects	Product price query result.

Table 4-2328 OptionalDiscountRatingResult

Parameter	Type	Description
discount_id	String	Discount ID.
amount	Number	Total order amount, that is, the final order amount after discount (reserved instances include only the prepaid part).
official_website_amount	Number	List price (reserved instances include only the prepaid part).
original_amount	Number	Original total order amount, that is, the total order amount before discount (reserved instances include only the prepaid part).
official_website_discount_amount	Number	List price discount (reserved instances include only the prepaid part).
optional_discount_amount	Number	Discount available (reserved instances include only the prepaid part).
discount_amount	Number	Total discount (reserved instances include only the prepaid part).
per_amount	Number	Total installment amount, which is available only when the installment period types of the products for batch price query are the same.
per_discount_amount	Number	Discount of the total installment amount (perDiscountAmount = perOriginalAmount - perAmount).

Parameter	Type	Description
per_original_amount	Number	Original price of the total installment amount.
per_official_website_amount	Number	List price of the total installment amount, which is available only when the installment period types of the products for batch price query are the same.
per_official_website_discount_amount	Number	List price discount of the total installment amount, which is available only when the installment period types of the products for batch price query are the same. perOfficialWebsiteDiscountAmount = perOriginalAmount - perOfficialWebsiteAmount.
per_optional_discount_amount	Number	Available discount of the installment amount, including commercial discount, partner discount, promotion discount, and coupon discount. This parameter is available only when the installment period types of the products for batch price query are the same. perOptionalDiscountAmount = perOfficialWebsiteAmount - perAmount.
per_period_type	Integer	Installment period type. 2: monthly; 4: hourly.
measure_id	Integer	Measurement unit.
discount_type	Integer	Discount type.
discount_name	String	Discount name.
best_offer	Integer	Whether the discount is the optimal discount. 0: no (default value). 1: yes. The optimal discount is selected from the commercial discount, partner discount, and promotion discount (if the discount amounts are the same, the priority is: commercial discount > partner discount > promotion discount). Coupon discounts are not included in the calculation of the optimal discount.
same_ratio_flag	Integer	sameRatioFlag.

Parameter	Type	Description
discount_ratio	Number	Discount rate. A discount rate needs to be specified if sameRatioFlag is set to 1 .
promotion_info	String	Basic discount information. After determining the discount, the API caller uses this parameter to fill in the field promotionInfo in the API for subscription or change.
product_rating_results	Array of ProductResult objects	Product price query result.

Table 4-2329 ProductResult

Parameter	Type	Description
id	String	ID in the request body.
product_id	String	Product ID.
amount	Number	Total amount, that is, the final amount after discount (reserved instances include only the prepaid part).
discount_amount	Number	Discount (reserved instances include only the prepaid part).
original_amount	Number	Original total amount, that is, the total amount before discount (reserved instances include only the prepaid part).
official_website_amount	Number	List price (This field is not available for all APIs. Reserved instances include only the prepaid part.)
official_website_discount_amount	Number	List price discount (This field is not available for all APIs. Reserved instances include only the prepaid part.)
optional_discount_amount	Number	Available discount, including commercial discount, partner discount, promotion discount, and coupon discount. (This field is not available for all APIs. Reserved instances include only the prepaid part.)

Parameter	Type	Description
per_amount	Number	Total installment amount, which is available only when the installment period types of the products for batch price query are the same.
per_discount_amount	Number	Discount of the total installment amount (perDiscountAmount = perOriginalAmount - perAmount).
per_original_amount	Number	Original price of the total installment amount.
per_official_website_amount	Number	List price for the installment payment amount.
per_official_website_discount_amount	Number	List price discount of the installment amount, that is, perOfficialWebsiteDiscountAmount = perOriginalAmount - perOfficialWebsiteAmount .
per_optional_discount_amount	Number	Available discount of the installment amount, including commercial discount, partner discount, promotion discount, and coupon discount. perOptionalDiscountAmount = perOfficialWebsiteAmount - perAmount .
per_period_type	Integer	Installment period type. 2 : monthly; 4 : hourly.
measure_id	Integer	Measurement unit.
extend_params	String	Extended parameter.

Status code: 400**Table 4-2330** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.

Parameter	Type	Description
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 409**Table 4-2331** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-2332** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
{
  "desktop_pool_id" : "string",
  "desktop_ids" : [ "string" ],
  "promotion_plan_id" : "string",
  "volume_type" : "string",
```



```
"volume_size" : 8200
}
```

Example Responses

Status code: 200

Response body for querying the price for yearly/monthly desktop pools in batches.

```
{
  "currency" : "string",
  "cloud_service_rating_results" : [ {
    "order_request_id" : "string",
    "official_website_rating_result" : {
      "amount" : 0,
      "official_website_amount" : 0,
      "original_amount" : 0,
      "official_website_discount_amount" : 0,
      "optional_discount_amount" : 0,
      "discount_amount" : 0,
      "per_amount" : 0,
      "per_discount_amount" : 0,
      "per_original_amount" : 0,
      "per_period_type" : 0,
      "measure_id" : 0,
      "product_rating_results" : [ {
        "id" : "string",
        "product_id" : "string",
        "amount" : 0,
        "discount_amount" : 0,
        "original_amount" : 0,
        "official_website_amount" : 0,
        "official_website_discount_amount" : 0,
        "optional_discount_amount" : 0,
        "per_amount" : 0,
        "per_discount_amount" : 0,
        "per_original_amount" : 0,
        "per_official_website_amount" : 0,
        "per_official_website_discount_amount" : 0,
        "per_optional_discount_amount" : 0,
        "per_period_type" : 0,
        "measure_id" : 0,
        "extend_params" : "string"
      } ]
    }
  } ],
  "optional_discount_rating_results" : [ {
    "discount_id" : "string",
    "amount" : 0,
    "official_website_amount" : 0,
    "original_amount" : 0,
    "official_website_discount_amount" : 0,
    "optional_discount_amount" : 0,
    "discount_amount" : 0,
    "per_amount" : 0,
    "per_discount_amount" : 0,
    "per_original_amount" : 0,
    "per_official_website_amount" : 0,
    "per_official_website_discount_amount" : 0,
    "per_optional_discount_amount" : 0,
    "per_period_type" : 0,
    "measure_id" : 0,
    "discount_type" : 0,
    "discount_name" : "string",
    "best_offer" : 0,
    "same_ratio_flag" : 0,
    "discount_ratio" : 0,
    "promotion_info" : "string",
    "product_rating_results" : [ {
      "id" : "string",
```

```

"product_id" : "string",
"amount" : 0,
"discount_amount" : 0,
"original_amount" : 0,
"official_website_amount" : 0,
"official_website_discount_amount" : 0,
"optional_discount_amount" : 0,
"per_amount" : 0,
"per_discount_amount" : 0,
"per_original_amount" : 0,
"per_official_website_amount" : 0,
"per_official_website_discount_amount" : 0,
"per_optional_discount_amount" : 0,
"per_period_type" : 0,
"measure_id" : 0,
"extend_params" : "string"
}]
}]
}]
}

```

Status Codes

Status Code	Description
200	Response body for querying the price for yearly/monthly desktop pools in batches.
400	The request cannot be understood by the server due to malformed syntax.
409	Operation conflict.
500	Internal server error.

Error Codes

See [Error Codes](#).

4.17.3 Querying the Price for Changing the Images of Yearly/Monthly Desktop Pools in Batches

Function

Queries the price for changing the images of yearly/monthly desktop pools in batches, from free images to paid ones.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2/{project_id}/desktop-pool/periodic/inquiry/change-image

Table 4-2333 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-2334 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	No	String	MIME type of the request body.

Table 4-2335 Request body parameters

Parameter	Mandatory	Type	Description
desktop_pool_id	No	String	Desktop pool ID. If both desktop_pool_id and desktop_ids are set, the value of desktop_ids is used. The two parameters cannot be empty at the same time.
desktop_ids	No	Array of strings	IDs of yearly/monthly desktops. Common desktop IDs and pooled desktop IDs cannot coexist.
promotion_plan_id	No	String	Promotion plan ID.
image_spec_code	No	String	specCode of the KooGallery image. This parameter will be disabled soon. If both image_spec_code and image_id are set, the value of image_id is used. The two parameters cannot be empty at the same time.

Parameter	Mandatory	Type	Description
image_id	No	String	KooGallery image ID. image_id is recommended.

Response Parameters

Status code: 200

Table 4-2336 Response body parameters

Parameter	Type	Description
currency	String	Currency, for example, USD.
cloud_service_rating_results	Array of CloudServiceRatingResult objects	Price query result.

Table 4-2337 CloudServiceRatingResult

Parameter	Type	Description
order_request_id	String	orderRequestId in the order request body.
official_website_rating_result	OfficialWebsiteRatingResult object	Result.
optional_discount_rating_results	Array of OptionalDiscountRatingResult objects	Discounted price query result.

Table 4-2338 OfficialWebsiteRatingResult

Parameter	Type	Description
amount	Number	Total order amount, that is, the final order amount after discount (reserved instances include only the prepaid part).
official_website_amount	Number	List price (reserved instances include only the prepaid part).

Parameter	Type	Description
original_amount	Number	Original total order amount, that is, the total order amount before discount (reserved instances include only the prepaid part).
official_website_discount_amount	Number	List price discount (reserved instances include only the prepaid part).
optional_discount_amount	Number	Discount available (reserved instances include only the prepaid part).
discount_amount	Number	Total discount (reserved instances include only the prepaid part).
per_amount	Number	Total installment amount, which is available only when the installment period types of the products for batch price query are the same.
per_discount_amount	Number	Discount of the total installment amount (perDiscountAmount = perOriginalAmount - perAmount).
per_original_amount	Number	Original price of the total installment amount.
per_period_type	Integer	Installment period type. 2: monthly; 4: hourly.
measure_id	Integer	Measurement unit.
product_rating_results	Array of ProductResult objects	Product price query result.

Table 4-2339 OptionalDiscountRatingResult

Parameter	Type	Description
discount_id	String	Discount ID.
amount	Number	Total order amount, that is, the final order amount after discount (reserved instances include only the prepaid part).
official_website_amount	Number	List price (reserved instances include only the prepaid part).

Parameter	Type	Description
original_amount	Number	Original total order amount, that is, the total order amount before discount (reserved instances include only the prepaid part).
official_website_discount_amount	Number	List price discount (reserved instances include only the prepaid part).
optional_discount_amount	Number	Discount available (reserved instances include only the prepaid part).
discount_amount	Number	Total discount (reserved instances include only the prepaid part).
per_amount	Number	Total installment amount, which is available only when the installment period types of the products for batch price query are the same.
per_discount_amount	Number	Discount of the total installment amount (perDiscountAmount = perOriginalAmount - perAmount).
per_original_amount	Number	Original price of the total installment amount.
per_official_website_amount	Number	List price of the total installment amount, which is available only when the installment period types of the products for batch price query are the same.
per_official_website_discount_amount	Number	List price discount of the total installment amount, which is available only when the installment period types of the products for batch price query are the same. perOfficialWebsiteDiscountAmount = perOriginalAmount - perOfficialWebsiteAmount .
per_optional_discount_amount	Number	Available discount of the installment amount, including commercial discount, partner discount, promotion discount, and coupon discount. This parameter is available only when the installment period types of the products for batch price query are the same. perOptionalDiscountAmount = perOfficialWebsiteAmount - perAmount .
per_period_type	Integer	Installment period type. 2 : monthly; 4 : hourly.

Parameter	Type	Description
measure_id	Integer	Measurement unit.
discount_type	Integer	Discount type.
discount_name	String	Discount name.
best_offer	Integer	Whether the discount is the optimal discount. 0 : no (default value). 1 : yes. The optimal discount is selected from the commercial discount, partner discount, and promotion discount (if the discount amounts are the same, the priority is: commercial discount > partner discount > promotion discount). Coupon discounts are not included in the calculation of the optimal discount.
same_ratio_flag	Integer	sameRatioFlag .
discount_ratio	Number	Discount rate. A discount rate needs to be specified if sameRatioFlag is set to 1 .
promotion_info	String	Basic discount information. After determining the discount, the API caller uses this parameter to fill in the field promotionInfo in the API for subscription or change.
product_rating_results	Array of ProductResult objects	Product price query result.

Table 4-2340 ProductResult

Parameter	Type	Description
id	String	ID in the request body.
product_id	String	Product ID.
amount	Number	Total amount, that is, the final amount after discount (reserved instances include only the prepaid part).
discount_amount	Number	Discount (reserved instances include only the prepaid part).

Parameter	Type	Description
original_amount	Number	Original total amount, that is, the total amount before discount (reserved instances include only the prepaid part).
official_website_amount	Number	List price (This field is not available for all APIs. Reserved instances include only the prepaid part.)
official_website_discount_amount	Number	List price discount (This field is not available for all APIs. Reserved instances include only the prepaid part.)
optional_discount_amount	Number	Available discount, including commercial discount, partner discount, promotion discount, and coupon discount. (This field is not available for all APIs. Reserved instances include only the prepaid part.)
per_amount	Number	Total installment amount, which is available only when the installment period types of the products for batch price query are the same.
per_discount_amount	Number	Discount of the total installment amount (perDiscountAmount = perOriginalAmount - perAmount).
per_original_amount	Number	Original price of the total installment amount.
per_official_website_amount	Number	List price for the installment payment amount.
per_official_website_discount_amount	Number	List price discount of the installment amount, that is, perOfficialWebsiteDiscountAmount = perOriginalAmount - perOfficialWebsiteAmount .
per_optional_discount_amount	Number	Available discount of the installment amount, including commercial discount, partner discount, promotion discount, and coupon discount. perOptionalDiscountAmount = perOfficialWebsiteAmount - perAmount .
per_period_type	Integer	Installment period type. 2 : monthly; 4 : hourly.
measure_id	Integer	Measurement unit.

Parameter	Type	Description
extend_params	String	Extended parameter.

Status code: 400**Table 4-2341** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 409**Table 4-2342** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-2343** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.

Parameter	Type	Description
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
{
  "desktop_pool_id": "string",
  "desktop_ids": [ "string" ],
  "promotion_plan_id": "string",
  "image_spec_code": "string",
  "image_id": "string"
}
```

Example Responses

Status code: 200

Response body for querying the price for yearly/monthly desktop pools in batches.

```
{
  "currency": "string",
  "cloud_service_rating_results": [ {
    "order_request_id": "string",
    "official_website_rating_result": {
      "amount": 0,
      "official_website_amount": 0,
      "original_amount": 0,
      "official_website_discount_amount": 0,
      "optional_discount_amount": 0,
      "discount_amount": 0,
      "per_amount": 0,
      "per_discount_amount": 0,
      "per_original_amount": 0,
      "per_period_type": 0,
      "measure_id": 0,
      "product_rating_results": [ {
        "id": "string",
        "product_id": "string",
        "amount": 0,
        "discount_amount": 0,
        "original_amount": 0,
        "official_website_amount": 0,
        "official_website_discount_amount": 0,
        "optional_discount_amount": 0,
        "per_amount": 0,
        "per_discount_amount": 0,
        "per_original_amount": 0,
        "per_official_website_amount": 0,
        "per_official_website_discount_amount": 0,
        "per_optional_discount_amount": 0,
        "per_period_type": 0,
        "measure_id": 0,
        "extend_params": "string"
      } ]
    }
  } ]
},
```

```

"optional_discount_rating_results" : [ {
  "discount_id" : "string",
  "amount" : 0,
  "official_website_amount" : 0,
  "original_amount" : 0,
  "official_website_discount_amount" : 0,
  "optional_discount_amount" : 0,
  "discount_amount" : 0,
  "per_amount" : 0,
  "per_discount_amount" : 0,
  "per_original_amount" : 0,
  "per_official_website_amount" : 0,
  "per_official_website_discount_amount" : 0,
  "per_optional_discount_amount" : 0,
  "per_period_type" : 0,
  "measure_id" : 0,
  "discount_type" : 0,
  "discount_name" : "string",
  "best_offer" : 0,
  "same_ratio_flag" : 0,
  "discount_ratio" : 0,
  "promotion_info" : "string",
  "product_rating_results" : [ {
    "id" : "string",
    "product_id" : "string",
    "amount" : 0,
    "discount_amount" : 0,
    "original_amount" : 0,
    "official_website_amount" : 0,
    "official_website_discount_amount" : 0,
    "optional_discount_amount" : 0,
    "per_amount" : 0,
    "per_discount_amount" : 0,
    "per_original_amount" : 0,
    "per_official_website_amount" : 0,
    "per_official_website_discount_amount" : 0,
    "per_optional_discount_amount" : 0,
    "per_period_type" : 0,
    "measure_id" : 0,
    "extend_params" : "string"
  } ]
} ]
} ]
} ]
}

```

Status Codes

Status Code	Description
200	Response body for querying the price for yearly/monthly desktop pools in batches.
400	The request cannot be understood by the server due to malformed syntax.
409	Operation conflict.
500	Internal server error.

Error Codes

See [Error Codes](#).

4.17.4 Querying the Price for Expanding Disk Capacity of Yearly/Monthly Desktop Pools in Batches

Function

Queries the price for expanding disk capacity of yearly/monthly desktop pools in batches.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2/{project_id}/desktop-pool/periodic/inquiry/extend-volume

Table 4-2344 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-2345 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	No	String	MIME type of the request body.

Table 4-2346 Request body parameters

Parameter	Mandatory	Type	Description
desktop_pool_id	No	String	Desktop pool ID. If both desktop_pool_id and desktop_ids are set, the value of desktop_ids is used. The two parameters cannot be empty at the same time.
desktop_ids	No	Array of strings	IDs of yearly/monthly desktops. Common desktop IDs and pooled desktop IDs cannot coexist.
promotion_plan_id	No	String	Promotion plan ID.
desktop_pool_disk_id	Yes	String	ID of the disk to be expanded in the desktop pool.
new_size	Yes	Integer	Disk size after capacity expansion.

Response Parameters

Status code: 200

Table 4-2347 Response body parameters

Parameter	Type	Description
currency	String	Currency, for example, USD.
extend_params	String	Extended parameter.
official_website_rating_result	OfficialWebsiteRatingResult object	Result.
optional_discount_rating_results	Array of OptionalDiscountRatingResult objects	Price query result when there is an applicable discount. A result will be returned for each applicable discount.

Table 4-2348 OfficialWebsiteRatingResult

Parameter	Type	Description
amount	Number	Total order amount, that is, the final order amount after discount (reserved instances include only the prepaid part).
official_website_amount	Number	List price (reserved instances include only the prepaid part).
original_amount	Number	Original total order amount, that is, the total order amount before discount (reserved instances include only the prepaid part).
official_website_discount_amount	Number	List price discount (reserved instances include only the prepaid part).
optional_discount_amount	Number	Discount available (reserved instances include only the prepaid part).
discount_amount	Number	Total discount (reserved instances include only the prepaid part).
per_amount	Number	Total installment amount, which is available only when the installment period types of the products for batch price query are the same.
per_discount_amount	Number	Discount of the total installment amount (perDiscountAmount = perOriginalAmount - perAmount).
per_original_amount	Number	Original price of the total installment amount.
per_period_type	Integer	Installment period type. 2 : monthly; 4 : hourly.
measure_id	Integer	Measurement unit.
product_rating_results	Array of ProductResult objects	Product price query result.

Table 4-2349 OptionalDiscountRatingResult

Parameter	Type	Description
discount_id	String	Discount ID.

Parameter	Type	Description
amount	Number	Total order amount, that is, the final order amount after discount (reserved instances include only the prepaid part).
official_website_amount	Number	List price (reserved instances include only the prepaid part).
original_amount	Number	Original total order amount, that is, the total order amount before discount (reserved instances include only the prepaid part).
official_website_discount_amount	Number	List price discount (reserved instances include only the prepaid part).
optional_discount_amount	Number	Discount available (reserved instances include only the prepaid part).
discount_amount	Number	Total discount (reserved instances include only the prepaid part).
per_amount	Number	Total installment amount, which is available only when the installment period types of the products for batch price query are the same.
per_discount_amount	Number	Discount of the total installment amount (perDiscountAmount = perOriginalAmount - perAmount).
per_original_amount	Number	Original price of the total installment amount.
per_official_website_amount	Number	List price of the total installment amount, which is available only when the installment period types of the products for batch price query are the same.
per_official_website_discount_amount	Number	List price discount of the total installment amount, which is available only when the installment period types of the products for batch price query are the same. perOfficialWebsiteDiscountAmount = perOriginalAmount - perOfficialWebsiteAmount .

Parameter	Type	Description
per_optional_discount_amount	Number	Available discount of the installment amount, including commercial discount, partner discount, promotion discount, and coupon discount. This parameter is available only when the installment period types of the products for batch price query are the same. perOptionalDiscountAmount = perOfficialWebsiteAmount - perAmount.
per_period_type	Integer	Installment period type. 2: monthly; 4: hourly.
measure_id	Integer	Measurement unit.
discount_type	Integer	Discount type.
discount_name	String	Discount name.
best_offer	Integer	Whether the discount is the optimal discount. 0: no (default value). 1: yes. The optimal discount is selected from the commercial discount, partner discount, and promotion discount (if the discount amounts are the same, the priority is: commercial discount > partner discount > promotion discount). Coupon discounts are not included in the calculation of the optimal discount.
same_ratio_flag	Integer	sameRatioFlag.
discount_ratio	Number	Discount rate. A discount rate needs to be specified if sameRatioFlag is set to 1 .
promotion_info	String	Basic discount information. After determining the discount, the API caller uses this parameter to fill in the field promotionInfo in the API for subscription or change.
product_rating_results	Array of ProductResult objects	Product price query result.

Table 4-2350 ProductResult

Parameter	Type	Description
id	String	ID in the request body.
product_id	String	Product ID.
amount	Number	Total amount, that is, the final amount after discount (reserved instances include only the prepaid part).
discount_amount	Number	Discount (reserved instances include only the prepaid part).
original_amount	Number	Original total amount, that is, the total amount before discount (reserved instances include only the prepaid part).
official_website_amount	Number	List price (This field is not available for all APIs. Reserved instances include only the prepaid part.)
official_website_discount_amount	Number	List price discount (This field is not available for all APIs. Reserved instances include only the prepaid part.)
optional_discount_amount	Number	Available discount, including commercial discount, partner discount, promotion discount, and coupon discount. (This field is not available for all APIs. Reserved instances include only the prepaid part.)
per_amount	Number	Total installment amount, which is available only when the installment period types of the products for batch price query are the same.
per_discount_amount	Number	Discount of the total installment amount (perDiscountAmount = perOriginalAmount - perAmount).
per_original_amount	Number	Original price of the total installment amount.
per_official_website_amount	Number	List price for the installment payment amount.
per_official_website_discount_amount	Number	List price discount of the installment amount, that is, perOfficialWebsiteDiscountAmount = perOriginalAmount - perOfficialWebsiteAmount .

Parameter	Type	Description
per_optional_discount_amount	Number	Available discount of the installment amount, including commercial discount, partner discount, promotion discount, and coupon discount. perOptionalDiscountAmount = perOfficialWebsiteAmount - perAmount.
per_period_type	Integer	Installment period type. 2: monthly; 4: hourly.
measure_id	Integer	Measurement unit.
extend_params	String	Extended parameter.

Status code: 400

Table 4-2351 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorizati-on-message of STS to decrypt the reason.

Status code: 409

Table 4-2352 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.

Parameter	Type	Description
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500

Table 4-2353 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
{
  "desktop_pool_id" : "string",
  "desktop_ids" : [ "string" ],
  "promotion_plan_id" : "string",
  "desktop_pool_disk_id" : "string",
  "new_size" : 8200
}
```

Example Responses

Status code: 200

Response body for querying the price for yearly/monthly desktop pools in batches.

```
{
  "currency" : "string",
  "extend_params" : "string",
  "official_website_rating_result" : {
    "amount" : 0,
    "official_website_amount" : 0,
    "original_amount" : 0,
    "official_website_discount_amount" : 0,
    "optional_discount_amount" : 0,
    "discount_amount" : 0,
    "per_amount" : 0,
    "per_discount_amount" : 0,
    "per_original_amount" : 0,
    "per_period_type" : 0,
    "measure_id" : 0,
    "product_rating_results" : [ {
```

```

    "id" : "string",
    "product_id" : "string",
    "amount" : 0,
    "discount_amount" : 0,
    "original_amount" : 0,
    "official_website_amount" : 0,
    "official_website_discount_amount" : 0,
    "optional_discount_amount" : 0,
    "per_amount" : 0,
    "per_discount_amount" : 0,
    "per_original_amount" : 0,
    "per_official_website_amount" : 0,
    "per_official_website_discount_amount" : 0,
    "per_optional_discount_amount" : 0,
    "per_period_type" : 0,
    "measure_id" : 0,
    "extend_params" : "string"
  } ]
},
"optional_discount_rating_results" : [ {
  "discount_id" : "string",
  "amount" : 0,
  "official_website_amount" : 0,
  "original_amount" : 0,
  "official_website_discount_amount" : 0,
  "optional_discount_amount" : 0,
  "discount_amount" : 0,
  "per_amount" : 0,
  "per_discount_amount" : 0,
  "per_original_amount" : 0,
  "per_official_website_amount" : 0,
  "per_official_website_discount_amount" : 0,
  "per_optional_discount_amount" : 0,
  "per_period_type" : 0,
  "measure_id" : 0,
  "discount_type" : 0,
  "discount_name" : "string",
  "best_offer" : 0,
  "same_ratio_flag" : 0,
  "discount_ratio" : 0,
  "promotion_info" : "string",
  "product_rating_results" : [ {
    "id" : "string",
    "product_id" : "string",
    "amount" : 0,
    "discount_amount" : 0,
    "original_amount" : 0,
    "official_website_amount" : 0,
    "official_website_discount_amount" : 0,
    "optional_discount_amount" : 0,
    "per_amount" : 0,
    "per_discount_amount" : 0,
    "per_original_amount" : 0,
    "per_official_website_amount" : 0,
    "per_official_website_discount_amount" : 0,
    "per_optional_discount_amount" : 0,
    "per_period_type" : 0,
    "measure_id" : 0,
    "extend_params" : "string"
  } ]
} ]
} ]
}

```

Status Codes

Status Code	Description
200	Response body for querying the price for yearly/monthly desktop pools in batches.
400	The request cannot be understood by the server due to malformed syntax.
409	Operation conflict.
500	Internal server error.

Error Codes

See [Error Codes](#).

4.17.5 Querying the Price for Changing the Specifications of Yearly/Monthly Desktop Pools in Batches

Function

Queries the price for changing the specifications of yearly/monthly desktop pools in batches.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2/{project_id}/desktop-pool/periodic/inquiry/resize

Table 4-2354 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-2355 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	No	String	MIME type of the request body.

Table 4-2356 Request body parameters

Parameter	Mandatory	Type	Description
desktop_pool_id	No	String	Desktop pool ID. If both desktop_pool_id and desktop_ids are set, the value of desktop_ids is used. The two parameters cannot be empty at the same time.
desktop_ids	No	Array of strings	IDs of yearly/monthly desktops. Common desktop IDs and pooled desktop IDs cannot coexist.
promotion_plan_id	No	String	Promotion plan ID.
product_id	Yes	String	Product ID of the target specifications.

Response Parameters

Status code: 200

Table 4-2357 Response body parameters

Parameter	Type	Description
is_upgrade	Boolean	Whether the specifications are upgraded.

Parameter	Type	Description
batch_inquiry_rsp_when_upgrade	PeriodBatchUpChangeResourceRsp object	Response body for querying the price for upgrading the desktop pool specifications.
batch_inquiry_rsp_when_downgrade	BatchInquiryChangeRsp object	Response body for querying the price for batch changes.

Table 4-2358 PeriodBatchUpChangeResourceRsp

Parameter	Type	Description
currency	String	Currency, for example, USD.
extend_params	String	Extended parameter.
official_website_rating_result	OfficialWebsiteRatingResult object	Result.
optional_discount_rating_results	Array of OptionalDiscountRatingResult objects	Price query result when there is an applicable discount. A result will be returned for each applicable discount.

Table 4-2359 OfficialWebsiteRatingResult

Parameter	Type	Description
amount	Number	Total order amount, that is, the final order amount after discount (reserved instances include only the prepaid part).
official_website_amount	Number	List price (reserved instances include only the prepaid part).
original_amount	Number	Original total order amount, that is, the total order amount before discount (reserved instances include only the prepaid part).
official_website_discount_amount	Number	List price discount (reserved instances include only the prepaid part).
optional_discount_amount	Number	Discount available (reserved instances include only the prepaid part).
discount_amount	Number	Total discount (reserved instances include only the prepaid part).

Parameter	Type	Description
per_amount	Number	Total installment amount, which is available only when the installment period types of the products for batch price query are the same.
per_discount_amount	Number	Discount of the total installment amount (perDiscountAmount = perOriginalAmount - perAmount).
per_original_amount	Number	Original price of the total installment amount.
per_period_type	Integer	Installment period type. 2 : monthly; 4 : hourly.
measure_id	Integer	Measurement unit.
product_rating_results	Array of ProductResult objects	Product price query result.

Table 4-2360 OptionalDiscountRatingResult

Parameter	Type	Description
discount_id	String	Discount ID.
amount	Number	Total order amount, that is, the final order amount after discount (reserved instances include only the prepaid part).
official_website_amount	Number	List price (reserved instances include only the prepaid part).
original_amount	Number	Original total order amount, that is, the total order amount before discount (reserved instances include only the prepaid part).
official_website_discount_amount	Number	List price discount (reserved instances include only the prepaid part).
optional_discount_amount	Number	Discount available (reserved instances include only the prepaid part).
discount_amount	Number	Total discount (reserved instances include only the prepaid part).

Parameter	Type	Description
per_amount	Number	Total installment amount, which is available only when the installment period types of the products for batch price query are the same.
per_discount_amount	Number	Discount of the total installment amount (perDiscountAmount = perOriginalAmount - perAmount).
per_original_amount	Number	Original price of the total installment amount.
per_official_website_amount	Number	List price of the total installment amount, which is available only when the installment period types of the products for batch price query are the same.
per_official_website_discount_amount	Number	List price discount of the total installment amount, which is available only when the installment period types of the products for batch price query are the same. perOfficialWebsiteDiscountAmount = perOriginalAmount - perOfficialWebsiteAmount .
per_optional_discount_amount	Number	Available discount of the installment amount, including commercial discount, partner discount, promotion discount, and coupon discount. This parameter is available only when the installment period types of the products for batch price query are the same. perOptionalDiscountAmount = perOfficialWebsiteAmount - perAmount .
per_period_type	Integer	Installment period type. 2 : monthly; 4 : hourly.
measure_id	Integer	Measurement unit.
discount_type	Integer	Discount type.
discount_name	String	Discount name.

Parameter	Type	Description
best_offer	Integer	Whether the discount is the optimal discount. 0 : no (default value). 1 : yes. The optimal discount is selected from the commercial discount, partner discount, and promotion discount (if the discount amounts are the same, the priority is: commercial discount > partner discount > promotion discount). Coupon discounts are not included in the calculation of the optimal discount.
same_ratio_flag	Integer	sameRatioFlag .
discount_ratio	Number	Discount rate. A discount rate needs to be specified if sameRatioFlag is set to 1 .
promotion_info	String	Basic discount information. After determining the discount, the API caller uses this parameter to fill in the field promotionInfo in the API for subscription or change.
product_rating_results	Array of ProductResult objects	Product price query result.

Table 4-2361 ProductResult

Parameter	Type	Description
id	String	ID in the request body.
product_id	String	Product ID.
amount	Number	Total amount, that is, the final amount after discount (reserved instances include only the prepaid part).
discount_amount	Number	Discount (reserved instances include only the prepaid part).
original_amount	Number	Original total amount, that is, the total amount before discount (reserved instances include only the prepaid part).
official_website_amount	Number	List price (This field is not available for all APIs. Reserved instances include only the prepaid part.)

Parameter	Type	Description
official_website_discount_amount	Number	List price discount (This field is not available for all APIs. Reserved instances include only the prepaid part.)
optional_discount_amount	Number	Available discount, including commercial discount, partner discount, promotion discount, and coupon discount. (This field is not available for all APIs. Reserved instances include only the prepaid part.)
per_amount	Number	Total installment amount, which is available only when the installment period types of the products for batch price query are the same.
per_discount_amount	Number	Discount of the total installment amount (perDiscountAmount = perOriginalAmount - perAmount).
per_original_amount	Number	Original price of the total installment amount.
per_official_website_amount	Number	List price for the installment payment amount.
per_official_website_discount_amount	Number	List price discount of the installment amount, that is, perOfficialWebsiteDiscountAmount = perOriginalAmount - perOfficialWebsiteAmount .
per_optional_discount_amount	Number	Available discount of the installment amount, including commercial discount, partner discount, promotion discount, and coupon discount. perOptionalDiscountAmount = perOfficialWebsiteAmount - perAmount .
per_period_type	Integer	Installment period type. 2 : monthly; 4 : hourly.
measure_id	Integer	Measurement unit.
extend_params	String	Extended parameter.

Table 4-2362 BatchInquiryChangeRsp

Parameter	Type	Description
ret_code	String	Return code, which is fixed to 0 .
error_txt	String	Returned information.
amount	Number	Total amount, that is, the final amount after discount (including the total amount of refunded cash, cash coupons, and stored-value cards when specifications are downgraded).
coupon_results	Array of CouponUnsubscribeResult objects	Refund amount of the coupon (available when specifications are downgraded).
discount_amount	Number	Discounted amount.
original_amount	Number	Original amount, that is, the total amount before a discount.
measure_id	Integer	Measurement unit ID.
currency	String	Currency unit code (compliant with the ISO 4217 standard).
product_rating_result	Array of BatchResInquiryResult objects	Rating result.
extend_params	String	Extended parameter.

Table 4-2363 BatchResInquiryResult

Parameter	Type	Description
id	String	ID, which must be unique for each price query.
product_id	String	ID of the product after the change.
amount	Number	Total amount, that is, the final amount after discount (including the total amount of refunded cash, cash coupons, and stored-value cards when specifications are downgraded).
coupon_results	Array of CouponUnsubscribeResult objects	Refund amount of the coupon (available when specifications are downgraded).
discount_amount	Number	Discounted amount.

Parameter	Type	Description
original_amount	Number	Original amount, that is, the total amount before a discount.
measure_id	Integer	Measurement unit ID.
extend_params	String	Extended parameter.

Table 4-2364 CouponUnsubscribeResult

Parameter	Type	Description
coupon_id	String	Coupon ID.
coupon_type	String	Coupon type. 302 : cash coupon; 303 : stored-value card.
amount	Double	Refunded amount using a coupon.
measure_id	Integer	Measurement unit. '

Status code: 400**Table 4-2365** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 409**Table 4-2366** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.

Parameter	Type	Description
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500

Table 4-2367 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
{
  "desktop_pool_id" : "string",
  "desktop_ids" : [ "string" ],
  "promotion_plan_id" : "string",
  "product_id" : "string"
}
```

Example Responses

Status code: 200

Response body for querying the price for yearly/monthly desktop pools in batches.

```
{
  "is_upgrade" : true,
  "batch_inquiry_rsp_when_upgrade" : {
    "currency" : "string",
    "extend_params" : "string",
    "official_website_rating_result" : {
      "amount" : 0,
      "official_website_amount" : 0,
      "original_amount" : 0,
      "official_website_discount_amount" : 0,
      "optional_discount_amount" : 0,
      "discount_amount" : 0,
      "per_amount" : 0,
      "per_discount_amount" : 0,
      "per_original_amount" : 0,

```

```

"per_period_type" : 0,
"measure_id" : 0,
"product_rating_results" : [ {
  "id" : "string",
  "product_id" : "string",
  "amount" : 0,
  "discount_amount" : 0,
  "original_amount" : 0,
  "official_website_amount" : 0,
  "official_website_discount_amount" : 0,
  "optional_discount_amount" : 0,
  "per_amount" : 0,
  "per_discount_amount" : 0,
  "per_original_amount" : 0,
  "per_official_website_amount" : 0,
  "per_official_website_discount_amount" : 0,
  "per_optional_discount_amount" : 0,
  "per_period_type" : 0,
  "measure_id" : 0,
  "extend_params" : "string"
} ]
},
"optional_discount_rating_results" : [ {
  "discount_id" : "string",
  "amount" : 0,
  "official_website_amount" : 0,
  "original_amount" : 0,
  "official_website_discount_amount" : 0,
  "optional_discount_amount" : 0,
  "discount_amount" : 0,
  "per_amount" : 0,
  "per_discount_amount" : 0,
  "per_original_amount" : 0,
  "per_official_website_amount" : 0,
  "per_official_website_discount_amount" : 0,
  "per_optional_discount_amount" : 0,
  "per_period_type" : 0,
  "measure_id" : 0,
  "discount_type" : 0,
  "discount_name" : "string",
  "best_offer" : 0,
  "same_ratio_flag" : 0,
  "discount_ratio" : 0,
  "promotion_info" : "string",
  "product_rating_results" : [ {
    "id" : "string",
    "product_id" : "string",
    "amount" : 0,
    "discount_amount" : 0,
    "original_amount" : 0,
    "official_website_amount" : 0,
    "official_website_discount_amount" : 0,
    "optional_discount_amount" : 0,
    "per_amount" : 0,
    "per_discount_amount" : 0,
    "per_original_amount" : 0,
    "per_official_website_amount" : 0,
    "per_official_website_discount_amount" : 0,
    "per_optional_discount_amount" : 0,
    "per_period_type" : 0,
    "measure_id" : 0,
    "extend_params" : "string"
  } ]
} ]
},
"batch_inquiry_rsp_when_downgrade" : {
  "ret_code" : "string",
  "error_txt" : "string",
  "amount" : 0,

```

```

"coupon_results" : [ {
  "coupon_id" : "string",
  "coupon_type" : "string",
  "amount" : 0,
  "measure_id" : 0
} ],
"discount_amount" : 0,
"original_amount" : 0,
"measure_id" : 0,
"currency" : "string",
"product_rating_result" : [ {
  "id" : "string",
  "product_id" : "string",
  "amount" : 0,
  "coupon_results" : [ {
    "coupon_id" : "string",
    "coupon_type" : "string",
    "amount" : 0,
    "measure_id" : 0
  } ],
  "discount_amount" : 0,
  "original_amount" : 0,
  "measure_id" : 0,
  "extend_params" : "string"
} ],
"extend_params" : "string"
}
}

```

Status Codes

Status Code	Description
200	Response body for querying the price for yearly/monthly desktop pools in batches.
400	The request cannot be understood by the server due to malformed syntax.
409	Operation conflict.
500	Internal server error.

Error Codes

See [Error Codes](#).

4.17.6 Querying the Price for Increasing the Specifications of Yearly/Monthly Desktops in Batches

Function

Queries the price for increasing the specifications of yearly/monthly desktops in batches.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2/{project_id}/periodic/inquiry/add-resources

Table 4-2368 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-2369 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	No	String	MIME type of the request body.

Table 4-2370 Request body parameters

Parameter	Mandatory	Type	Description
desktop_pool_id	No	String	Desktop pool ID. If both desktop_pool_id and desktop_ids are set, the value of desktop_ids is used. The two parameters cannot be empty at the same time.
desktop_ids	No	Array of strings	IDs of yearly/monthly desktops. Common desktop IDs and pooled desktop IDs cannot coexist.
promotion_plan_id	No	String	Promotion plan ID.

Parameter	Mandatory	Type	Description
sub_resource_sku	Yes	String	Add an appendant resource SKU code.

Response Parameters

Status code: 200

Table 4-2371 Response body parameters

Parameter	Type	Description
currency	String	Currency, for example, USD.
cloud_service_rating_results	Array of CloudServiceRatingResult objects	Price query result.

Table 4-2372 CloudServiceRatingResult

Parameter	Type	Description
order_request_id	String	orderRequestId in the order request body.
official_website_rating_result	OfficialWebsiteRatingResult object	Result.
optional_discount_rating_results	Array of OptionalDiscountRatingResult objects	Discounted price query result.

Table 4-2373 OfficialWebsiteRatingResult

Parameter	Type	Description
amount	Number	Total order amount, that is, the final order amount after discount (reserved instances include only the prepaid part).
official_website_amount	Number	List price (reserved instances include only the prepaid part).

Parameter	Type	Description
original_amount	Number	Original total order amount, that is, the total order amount before discount (reserved instances include only the prepaid part).
official_website_discount_amount	Number	List price discount (reserved instances include only the prepaid part).
optional_discount_amount	Number	Discount available (reserved instances include only the prepaid part).
discount_amount	Number	Total discount (reserved instances include only the prepaid part).
per_amount	Number	Total installment amount, which is available only when the installment period types of the products for batch price query are the same.
per_discount_amount	Number	Discount of the total installment amount (perDiscountAmount = perOriginalAmount - perAmount).
per_original_amount	Number	Original price of the total installment amount.
per_period_type	Integer	Installment period type. 2: monthly; 4: hourly.
measure_id	Integer	Measurement unit.
product_rating_results	Array of ProductResult objects	Product price query result.

Table 4-2374 OptionalDiscountRatingResult

Parameter	Type	Description
discount_id	String	Discount ID.
amount	Number	Total order amount, that is, the final order amount after discount (reserved instances include only the prepaid part).
official_website_amount	Number	List price (reserved instances include only the prepaid part).

Parameter	Type	Description
original_amount	Number	Original total order amount, that is, the total order amount before discount (reserved instances include only the prepaid part).
official_website_discount_amount	Number	List price discount (reserved instances include only the prepaid part).
optional_discount_amount	Number	Discount available (reserved instances include only the prepaid part).
discount_amount	Number	Total discount (reserved instances include only the prepaid part).
per_amount	Number	Total installment amount, which is available only when the installment period types of the products for batch price query are the same.
per_discount_amount	Number	Discount of the total installment amount (perDiscountAmount = perOriginalAmount - perAmount).
per_original_amount	Number	Original price of the total installment amount.
per_official_website_amount	Number	List price of the total installment amount, which is available only when the installment period types of the products for batch price query are the same.
per_official_website_discount_amount	Number	List price discount of the total installment amount, which is available only when the installment period types of the products for batch price query are the same. perOfficialWebsiteDiscountAmount = perOriginalAmount - perOfficialWebsiteAmount .
per_optional_discount_amount	Number	Available discount of the installment amount, including commercial discount, partner discount, promotion discount, and coupon discount. This parameter is available only when the installment period types of the products for batch price query are the same. perOptionalDiscountAmount = perOfficialWebsiteAmount - perAmount .
per_period_type	Integer	Installment period type. 2 : monthly; 4 : hourly.

Parameter	Type	Description
measure_id	Integer	Measurement unit.
discount_type	Integer	Discount type.
discount_name	String	Discount name.
best_offer	Integer	Whether the discount is the optimal discount. 0 : no (default value). 1 : yes. The optimal discount is selected from the commercial discount, partner discount, and promotion discount (if the discount amounts are the same, the priority is: commercial discount > partner discount > promotion discount). Coupon discounts are not included in the calculation of the optimal discount.
same_ratio_flag	Integer	sameRatioFlag .
discount_ratio	Number	Discount rate. A discount rate needs to be specified if sameRatioFlag is set to 1 .
promotion_info	String	Basic discount information. After determining the discount, the API caller uses this parameter to fill in the field promotionInfo in the API for subscription or change.
product_rating_results	Array of ProductResult objects	Product price query result.

Table 4-2375 ProductResult

Parameter	Type	Description
id	String	ID in the request body.
product_id	String	Product ID.
amount	Number	Total amount, that is, the final amount after discount (reserved instances include only the prepaid part).
discount_amount	Number	Discount (reserved instances include only the prepaid part).

Parameter	Type	Description
original_amount	Number	Original total amount, that is, the total amount before discount (reserved instances include only the prepaid part).
official_website_amount	Number	List price (This field is not available for all APIs. Reserved instances include only the prepaid part.)
official_website_discount_amount	Number	List price discount (This field is not available for all APIs. Reserved instances include only the prepaid part.)
optional_discount_amount	Number	Available discount, including commercial discount, partner discount, promotion discount, and coupon discount. (This field is not available for all APIs. Reserved instances include only the prepaid part.)
per_amount	Number	Total installment amount, which is available only when the installment period types of the products for batch price query are the same.
per_discount_amount	Number	Discount of the total installment amount (perDiscountAmount = perOriginalAmount - perAmount).
per_original_amount	Number	Original price of the total installment amount.
per_official_website_amount	Number	List price for the installment payment amount.
per_official_website_discount_amount	Number	List price discount of the installment amount, that is, perOfficialWebsiteDiscountAmount = perOriginalAmount - perOfficialWebsiteAmount .
per_optional_discount_amount	Number	Available discount of the installment amount, including commercial discount, partner discount, promotion discount, and coupon discount. perOptionalDiscountAmount = perOfficialWebsiteAmount - perAmount .
per_period_type	Integer	Installment period type. 2 : monthly; 4 : hourly.
measure_id	Integer	Measurement unit.

Parameter	Type	Description
extend_params	String	Extended parameter.

Status code: 400**Table 4-2376** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 409**Table 4-2377** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-2378** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.

Parameter	Type	Description
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
{
  "desktop_pool_id": "string",
  "desktop_ids": [ "string" ],
  "promotion_plan_id": "string",
  "sub_resource_sku": "string"
}
```

Example Responses

Status code: 200

Response body for querying the price for yearly/monthly desktop pools in batches.

```
{
  "currency": "string",
  "cloud_service_rating_results": [ {
    "order_request_id": "string",
    "official_website_rating_result": {
      "amount": 0,
      "official_website_amount": 0,
      "original_amount": 0,
      "official_website_discount_amount": 0,
      "optional_discount_amount": 0,
      "discount_amount": 0,
      "per_amount": 0,
      "per_discount_amount": 0,
      "per_original_amount": 0,
      "per_period_type": 0,
      "measure_id": 0,
      "product_rating_results": [ {
        "id": "string",
        "product_id": "string",
        "amount": 0,
        "discount_amount": 0,
        "original_amount": 0,
        "official_website_amount": 0,
        "official_website_discount_amount": 0,
        "optional_discount_amount": 0,
        "per_amount": 0,
        "per_discount_amount": 0,
        "per_original_amount": 0,
        "per_official_website_amount": 0,
        "per_official_website_discount_amount": 0,
        "per_optional_discount_amount": 0,
        "per_period_type": 0,
        "measure_id": 0,
        "extend_params": "string"
      } ]
    }
  } ],
  "optional_discount_rating_results": [ {
```



```

"discount_id" : "string",
"amount" : 0,
"official_website_amount" : 0,
"original_amount" : 0,
"official_website_discount_amount" : 0,
"optional_discount_amount" : 0,
"discount_amount" : 0,
"per_amount" : 0,
"per_discount_amount" : 0,
"per_original_amount" : 0,
"per_official_website_amount" : 0,
"per_official_website_discount_amount" : 0,
"per_optional_discount_amount" : 0,
"per_period_type" : 0,
"measure_id" : 0,
"discount_type" : 0,
"discount_name" : "string",
"best_offer" : 0,
"same_ratio_flag" : 0,
"discount_ratio" : 0,
"promotion_info" : "string",
"product_rating_results" : [ {
  "id" : "string",
  "product_id" : "string",
  "amount" : 0,
  "discount_amount" : 0,
  "original_amount" : 0,
  "official_website_amount" : 0,
  "official_website_discount_amount" : 0,
  "optional_discount_amount" : 0,
  "per_amount" : 0,
  "per_discount_amount" : 0,
  "per_original_amount" : 0,
  "per_official_website_amount" : 0,
  "per_official_website_discount_amount" : 0,
  "per_optional_discount_amount" : 0,
  "per_period_type" : 0,
  "measure_id" : 0,
  "extend_params" : "string"
}]
}]
}]
}

```

Status Codes

Status Code	Description
200	Response body for querying the price for yearly/monthly desktop pools in batches.
400	The request cannot be understood by the server due to malformed syntax.
409	Operation conflict.
500	Internal server error.

Error Codes

See [Error Codes](#).

4.18 Product Packages

4.18.1 Querying the Product Package List

Function

Query the product packages supported by Huawei Cloud Workspace.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/products

Table 4-2379 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-2380 Query Parameters

Parameter	Mandatory	Type	Description
product_id	No	String	Product ID.
availability_zone	No	String	AZ.
os_type	No	String	OS of a product package, for example, Windows or Linux.
charge_mode	No	String	ID of a periodic package. 0 indicates the yearly/monthly billing mode, and 1 indicates the pay-per-use billing mode.
architecture	No	String	Architecture type. Arm and x86 are supported.
package_type	No	String	Package series.
limit	No	Integer	Number of records on each page. The value ranges from 0 to 100 and defaults to 100 .
offset	No	Integer	Offset. The default value is 0 .

Request Parameters

Table 4-2381 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body, for example, application/json .

Response Parameters

Status code: 200

Table 4-2382 Response body parameters

Parameter	Type	Description
os_type	String	OS types supported by a package. This parameter is available only when os_type is contained in the request.
architecture	String	Product architecture. This parameter is available only when package_type is set to agile in the request.
availability_zone	String	AZ. This parameter is available only when availability_zone is contained in the request.
products	Array of Product objects	Product list.
total_count	Integer	Number of objects.

Table 4-2383 Product

Parameter	Type	Description
product_id	String	Product ID.

Parameter	Type	Description
flavor_id	String	Specification ID.
type	String	Product type. Options: BASE : indicates the basic product package. The package image does not contain other commercial software products except the OS. Only this type of package can be used for private images.
architecture	String	Product architecture. Currently, Arm and x86 are supported.
cpu	String	CPU.
cpu_desc	String	CPU description.
memory	String	Memory.
is_gpu	Boolean	Whether the specifications are of the GPU type.
system_disk_type	String	System disk type.
system_disk_size	String	System disk size, in GB.
data_disk_size	String	Data disk size, in GB.
gpu_desc	String	GPU description.
bill_switch	String	Whether to enable the CDR function. The value can be on (CDR enabled) or off (CDR disabled). Only deserialization is supported. Serialization is not supported and is not displayed in the API.
descriptions	String	Product description.
product_desc	Map<String,String >	Product name <Language. Product description in each supported language>.
charge_mode	String	Periodic package ID. 0 indicates yearly/monthly billing and 1 indicates pay-per-use billing.
contain_data_disk	Boolean	Whether data disks are included in the package billing. off indicates no.
resource_type	String	Resource specifications.
cloud_service_type	String	Cloud service code.
volume_product_type	String	Disk type.

Parameter	Type	Description
domain_ids	Array of strings	ID of the dedicated domain (domainId) supported by the product package.
status	String	Product status. The options are normal , sellout , and abandon .
package_type	String	Package type. <ul style="list-style-type: none"> • ultimate: ultimate edition • enterprise: enterprise edition • general: general office edition • workstation: cloud workstation edition • dedicated: dedicated edition • solver: solver edition • agile: agile office edition
name	Map<String,String >	Product name.
share_space_size	Integer	Number of collaboration participants. Maximum number of collaboration participants of the package.

Status code: 400**Table 4-2384** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401**Table 4-2385** Response body parameters

Parameter	Type	Description
error_code	String	Error code.

Parameter	Type	Description
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-2386** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-2387** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 405**Table 4-2388** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Parameter	Type	Description
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-2389** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 503**Table 4-2390** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

None

Example Responses**Status code: 200**

Response to the request for querying products.

```
{
  "products" : [ {
    "product_id" : "workspace.x86.ultimate.large2",
```

```

"flavor_id" : "s6.large.2",
"type" : "BASE",
"architecture" : "x86",
"cpu" : "2",
"memory" : "4096",
"is_gpu" : false,
"system_disk_type" : "SAS",
"system_disk_size" : "140",
"bill_switch" : "on",
"descriptions" : "Ultimate | 2 vCPUs | 4 GB memory",
"charge_mode" : "0",
"contain_data_disk" : false,
"resource_type" : "hws.resource.type.workspace.desktop",
"cloud_service_type" : "hws.service.type.vdi",
"volume_product_type" : "workspace",
"domain_ids" : [ ],
"status" : "normal",
"package_type" : "ultimate",
"name" : {
  "en_us" : "Ultimate Desktop",
  "zh_cn" : "Ultimate edition"
}
}],
"total_count" : 1
}

```

Status Codes

Status Code	Description
200	Response to the request for querying products.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details about the error code, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.18.2 Querying Hourly Package Types That Can Be Subscribed To

Function

Queries hourly package types that can be subscribed to.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/products/hour-packages

Table 4-2391 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-2392 Query Parameters

Parameter	Mandatory	Type	Description
desktop_resource_spec_code	No	String	Resource specification code of the pay-per-use desktop of the hourly package.
resource_spec_code	No	String	Resource specification code of the hourly package.

Request Parameters

Table 4-2393 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-2394 Response body parameters

Parameter	Type	Description
hour_packages	Array of HourPackage objects	Hourly package types that can be subscribed to.
total_count	Integer	Total number of AZs where Huawei Cloud Workspace is available.

Table 4-2395 HourPackage

Parameter	Type	Description
cloud_service_type	String	Code of the cloud service type to which the resource belongs.
resource_type	String	Resource type.
resource_spec_code	String	Resource specification code of the hourly package.
desktop_resource_spec_code	String	Resource specification code of the pay-per-use desktop of the hourly package.
descriptions	ResourcePackageDescription object	Product descriptions.
package_duration	Integer	Available duration of the package, in hour.
domain_ids	Array of strings	ID of the dedicated domain (domainId) supported by the product package.
status	String	Product status. The options are normal , sellout , and abandon .

Table 4-2396 ResourcePackageDescription

Parameter	Type	Description
zh_cn	String	Description in Chinese.
en_us	String	Description in English.

Status code: 400

Table 4-2397 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401**Table 4-2398** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-2399** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404

Table 4-2400 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 405**Table 4-2401** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-2402** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 503

Table 4-2403 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

None

Example Responses

Status code: 200

Response to the request for querying hourly package types that can be subscribed to.

```
{
  "hour_packages": [ {
    "cloud_service_type": "string",
    "resource_type": "string",
    "resource_spec_code": "string",
    "desktop_resource_spec_code": "string",
    "descriptions": {
      "zh_cn": "string",
      "en_us": "string"
    },
    "package_duration": 0,
    "domain_ids": [ "string" ],
    "status": "normal"
  } ],
  "total_count": 0
}
```

Status Codes

Status Code	Description
200	Response to the request for querying hourly package types that can be subscribed to.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.

Status Code	Description
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.18.3 Querying the Collaboration Package List

Function

This interface is used to query the collaboration package list.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/products/sharer

Table 4-2404 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-2405 Query Parameters

Parameter	Mandatory	Type	Description
product_id	No	String	Product ID.
share_space_size	No	String	Number of collaboration parties. Maximum number of collaborative users supported by a package.

Parameter	Mandatory	Type	Description
charge_mode	No	String	ID of a periodic package. 0 indicates yearly/monthly billing, 1 indicates pay-per-use billing, and 6 indicates one-off billing.
is_gpu	No	Integer	Whether the package is a GPU package. 1 indicates a GPU package, and 0 indicates a non-GPU package. The default value is null , indicating that all types are queried.
package_type	No	String	Package series. user_sharer indicates a user collaboration package, and desktop_sharer indicates a desktop collaboration package.
limit	No	Integer	Number of records on each page. The value ranges from 0 to 100 and defaults to 100 .
offset	No	Integer	Offset. The default value is 0 .

Request Parameters

Table 4-2406 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body, for example, application/json .

Response Parameters

Status code: 200

Table 4-2407 Response body parameters

Parameter	Type	Description
products	Array of SharerProductInfo objects	Product list.
total_count	Integer	Number of objects.

Table 4-2408 SharerProductInfo

Parameter	Type	Description
product_id	String	Product ID.
is_gpu	Boolean	Whether the specifications are of the GPU type.
descriptions	String	Product description.
charge_mode	String	ID of a periodic package. 0 indicates yearly/monthly billing, 1 indicates pay-per-use billing, and 6 indicates one-off billing.
resource_type	String	Resource flavor.
cloud_service_type	String	Cloud service code
package_type	String	Package type. <ul style="list-style-type: none"> user_sharer: user-based collaborative package desktop_sharer: desktop collaboration package
name	Map<String,String>	Product name.
share_space_size	Integer	Number of collaboration parties. Maximum number of collaborative users supported by a package.

Status code: 400**Table 4-2409** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Parameter	Type	Description
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401**Table 4-2410** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-2411** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-2412** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Parameter	Type	Description
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 405**Table 4-2413** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-2414** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 503**Table 4-2415** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Parameter	Type	Description
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

None

Example Responses

Status code: 200

Response for querying the collaboration package list.

```
{
  "total_count": 2,
  "products": [ {
    "product_id": "workspace.collaborativedesktop.6party.standard",
    "descriptions": "Collaboration resource | 6 participants | Standard edition",
    "resource_type": "hws.resource.type.collaborativedesktop",
    "cloud_service_type": "hws.service.type.vdi",
    "package_type": "desktop_sharer",
    "share_space_size": "6",
    "charge_mode": "0",
    "is_gpu": true
  }, {
    "product_id": "workspace.collaborativedesktop.collabpartsubusers.1",
    "descriptions": "Subscription by collaboration participants | 1 user",
    "resource_type": "hws.resource.type.collaborativedesktop",
    "cloud_service_type": "hws.service.type.vdi",
    "package_type": "user_sharer",
    "charge_mode": "6"
  } ]
}
```

Status Codes

Status Code	Description
200	Response for querying the collaboration package list.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details about the error code, see the error code description.

Status Code	Description
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.19 Screen Recording Audit

4.19.1 Querying Screen Recording Records

Function

Queries screen recording records.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/screen-records

Table 4-2416 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-2417 Query Parameters

Parameter	Mandatory	Type	Description
limit	No	Integer	Limits the quantity of returned desktops in pagination query. The value ranges from 0 to 100. The default value is 10 .
offset	No	Integer	Where the pagination query starts. The value starts from 0 .
desktop_id	No	String	Filters results by desktop ID.
username	No	String	Filters results by username.

Parameter	Mandatory	Type	Description
status	No	String	Screen recording status. <ul style="list-style-type: none"> ● RECORDING: being recorded ● REC_COMPLETED: recording completed ● UPLOADING: recording being uploaded ● UPLOAD_COMPLETED: upload completed
type	No	String	Screen recording type. <ul style="list-style-type: none"> ● FULL: continuous screen recording ● INTERVAL: interval-based screen recording ● OPERATION: screen recording triggered by a specific user operation ● SESSION: screen recording of the session lifecycle
start_time	No	String	Start time. The format is yyyy-MM-dd HH:mm:ss (UTC time. If this parameter is not specified, data of the last 15 days is queried by default).
end_time	No	String	End time. The format is yyyy-MM-dd HH:mm:ss (UTC time. If this parameter is not specified, data of the last 15 days is queried by default).
sort_field	No	String	Field used for sorting the query results. The value is the start_time field of the screen recording attribute.
sort_type	No	String	Whether the query results are sorted in ascending or descending order. Its value can be desc or asc . This parameter is used together with sort_field .

Request Parameters

Table 4-2418 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API that is used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-2419 Response body parameters

Parameter	Type	Description
screen_records	Array of ScreenRecordDetail objects	Screen recording record.
total_count	Integer	Total number.

Table 4-2420 ScreenRecordDetail

Parameter	Type	Description
id	String	Primary key UUID.
desktop_id	String	Desktop ID.
desktop_name	String	Desktop name.
desktop_pool_id	String	Desktop pool ID.
username	String	Username.
size	Integer	File size, in bytes.

Parameter	Type	Description
type	String	Screen recording type. <ul style="list-style-type: none"> ● FULL: continuous screen recording ● INTERVAL: interval-based screen recording ● OPERATION: screen recording triggered by a specific user operation ● SESSION: screen recording of the session lifecycle
status	String	Screen recording status. <ul style="list-style-type: none"> ● RECORDING: being recorded ● REC_COMPLETED: recording completed ● REC_FAILED: recording failed ● UPLOADING: recording being uploaded ● UPLOAD_COMPLETED: upload completed ● UPLOAD_FAILED: upload failed
policy_id	String	Specifies the policy ID.
obs_bucket	String	OBS bucket name.
file_directory	String	File directory.
video_filename	String	Screen recording file name.
video_file_sha256	String	SHA-256 of a screen recording file.
event_filename	String	Event file name.
event_file_sha256	String	SHA-256 of an event file.
start_time	String	Start time (2024-10-15T10:04:41.263Z).
end_time	String	End time (2024-10-15T11:04:41.263Z).
update_time	String	Update time (2024-10-15T11:04:41.263Z).
duration	Integer	Video duration, in seconds.

Status code: 400

Table 4-2421 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401**Table 4-2422** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-2423** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404

Table 4-2424 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 405**Table 4-2425** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-2426** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 503

Table 4-2427 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
GET /v2/089b2f9a3d80d3062f24c00ca4ed5cbd/screen-records
```

Example Responses

Status code: 200

Response to the request for querying screen recording records.

```
{
  "total_count": 2,
  "screen_records": [ {
    "id": "8ac225c2781f230a01781f29b2e7xxxx",
    "desktop_id": "7f1ac068-xxxx-xxxx-xxxx-535f4b315958",
    "desktop_name": "desktop01",
    "desktop_pool_id": "3cjh2068-xxxx-xxxx-xxxx-535f4b315364",
    "username": "chenxxx",
    "status": "Uploaded",
    "type": "Continuous screen recording",
    "size": 546,
    "video_filename": "video_089b2f9a3d80d3062f24c00ca4ed5cbd_wanghaha_xxxx.mp4",
    "event_filename": "video_089b2f9a3d80d3062f24c00ca4ed5cbd_wanghaha_xxxx.mp4",
    "start_time": "2024-03-12 12:02:01",
    "end_time": "2024-03-12 12:52:01",
    "update_time": "2024-03-12 12:58:34",
    "duration": 3000
  }, {
    "id": "8ac225c2781edb0d01781edde3f4xxxx",
    "desktop_id": "7f1ac068-xxxx-xxxx-xxxx-535f4b315959",
    "desktop_name": "desktop02",
    "desktop_pool_id": "d3b82068-xxxx-xxxx-xxxx-535f4b315f3j",
    "username": "wanghaha",
    "status": "Uploaded",
    "type": "Interval-based screen recording",
    "size": 639,
    "video_filename": "video_089b2f9a3d80d3062f24c00ca4ed5cbd_wanghaha_yyyy.mp4",
    "event_filename": "video_089b2f9a3d80d3062f24c00ca4ed5cbd_wanghaha_yyyy.mp4",
    "start_time": "2024-09-30 11:02:06",
    "end_time": "2024-09-30 12:02:26",
    "update_time": "2024-09-30 13:06:12",
    "duration": 3620
  }
  ]
}
```

Status Codes

Status Code	Description
200	Response to the request for querying screen recording records.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details about the error code, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.19.2 Querying Screen Recording Details

Function

Queries screen recording details.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/screen-records/{record_id}

Table 4-2428 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
record_id	Yes	String	UUID of a screen recording record.

Request Parameters

Table 4-2429 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API that is used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-2430 Response body parameters

Parameter	Type	Description
id	String	Primary key UUID.
desktop_id	String	Desktop ID.
desktop_name	String	Desktop name.
desktop_pool_id	String	Desktop pool ID.
username	String	Username.
size	Integer	File size, in bytes.
type	String	Screen recording type. <ul style="list-style-type: none"> ● FULL: continuous screen recording ● INTERVAL: interval-based screen recording ● OPERATION: screen recording triggered by a specific user operation ● SESSION: screen recording of the session lifecycle

Parameter	Type	Description
status	String	Screen recording status. <ul style="list-style-type: none"> ● RECORDING: being recorded ● REC_COMPLETED: recording completed ● REC_FAILED: recording failed ● UPLOADING: recording being uploaded ● UPLOAD_COMPLETED: upload completed ● UPLOAD_FAILED: upload failed
policy_id	String	Specifies the policy ID.
obs_bucket	String	OBS bucket name.
file_directory	String	File directory.
video_filename	String	Screen recording file name.
video_file_sha256	String	SHA-256 of a screen recording file.
event_filename	String	Event file name.
event_file_sha256	String	SHA-256 of an event file.
start_time	String	Start time (2024-10-15T10:04:41.263Z).
end_time	String	End time (2024-10-15T11:04:41.263Z).
update_time	String	Update time (2024-10-15T11:04:41.263Z).
duration	Integer	Video duration, in seconds.

Status code: 400**Table 4-2431** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401**Table 4-2432** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-2433** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-2434** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 405

Table 4-2435 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-2436** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 503**Table 4-2437** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
GET /v2/089b2f9a3d80d3062f24c00ca4ed5cbd/screen-records/6c655e6a-xxxx-xxxx-xxxx-b7f0edc7a082
```

Example Responses

Status code: 200

Response to the request for querying screen recording details.

```
{
  "id": "8ac225c2781f230a01781f29b2e7xxxx",
  "desktop_id": "7f1ac068-xxxx-xxxx-xxxx-535f4b315959",
  "desktop_name": "desktop01",
  "desktop_pool_id": "3cjh2068-xxxx-xxxx-xxxx-535f4b315364",
  "username": "chenxxx",
  "size": 4262,
  "type": "FULL",
  "status": "RECORDING",
  "video_filename": "video_089b2f9a3d80d3062f24c00ca4ed5cbd_wanghaha_yyyy.mp4",
  "event_filename": "video_089b2f9a3d80d3062f24c00ca4ed5cbd_wanghaha_yyyx.mp4",
  "start_time": "2024-03-12 12:02:01",
  "end_time": "2024-03-12 12:52:01",
  "update_time": "2024-03-12 12:52:01",
  "duration": 1826
}
```

Status Codes

Status Code	Description
200	Response to the request for querying screen recording details.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details about the error code, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.19.3 Deleting Screen Recording Records in Batches

Function

Deletes screen recording records in batches.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2/{project_id}/screen-records/batch-delete

Table 4-2438 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-2439 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API that is used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 4-2440 Request body parameters

Parameter	Mandatory	Type	Description
screen_records	No	Array of screen_records objects	IDs of screen recordings to be deleted.

Table 4-2441 screen_records

Parameter	Mandatory	Type	Description
id	No	String	Primary key UUID.

Response Parameters

Status code: 200

Table 4-2442 Response body parameters

Parameter	Type	Description
job_id	String	Task ID.

Status code: 400**Table 4-2443** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401**Table 4-2444** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-2445** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Parameter	Type	Description
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-2446** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 405**Table 4-2447** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-2448** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Parameter	Type	Description
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 503

Table 4-2449 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
POST /v2/089b2f9a3d80d3062f24c00ca4ed5cbd/screen-records/batch-delete
{
  "screen_records": [ {
    "id": "7f1ac068-xxxx-xxxx-xxxx-535f4b315659"
  }, {
    "id": "7f1ac068-xxxx-xxxx-xxxx-795f4b315659"
  } ]
}
```

Example Responses

Status code: 200

Normal.

```
{
  "job_id": "7f1ac068-xxxx-xxxx-xxxx-795f4b317752"
}
```

Status Codes

Status Code	Description
200	Normal.
400	The request cannot be understood by the server due to malformed syntax.

Status Code	Description
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details about the error code, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.19.4 Querying Download Addresses

Function

Queries download addresses.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2/{project_id}/screen-records/download-address

Table 4-2450 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-2451 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API that is used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 4-2452 Request body parameters

Parameter	Mandatory	Type	Description
record_ids	No	Array of strings	UUIDs of screen recording records.

Response Parameters

Status code: 200

Table 4-2453 Response body parameters

Parameter	Type	Description
address	Array of DownloadAddressForList objects	Download addresses.

Table 4-2454 DownloadAddressForList

Parameter	Type	Description
id	String	UUID of a screen recording record (file).
download_url	String	Download address.

Status code: 400

Table 4-2455 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401**Table 4-2456** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-2457** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404

Table 4-2458 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 405**Table 4-2459** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-2460** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 503

Table 4-2461 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorizati-on-message of STS to decrypt the reason.

Example Requests

```
POST /v2/089b2f9a3d80d3062f24c00ca4ed5cbd/screen-records/download-address
{
  "record_ids": [ "7f1ac068-xxxx-xxxx-xxxx-535f4b315659", "7f1ac068-xxxx-xxxx-xxxx-795f4b315659" ]
}
```

Example Responses

Status code: 200

Response to the request for obtaining screen recording download addresses in batches.

```
{
  "address": [ {
    "id": "8ac225c2781f230a01781f29b2e7xxxx",
    "download_url": "https://xxx.obs.cn-north-7.ulanqab.huawei.com/video_089b2f9a3dxxxx062f24c00ca4ed6los_wanghanhan_xxxxx.mp4"
  }, {
    "id": "8ac225c2781edb0d01781edde3f4xxxx",
    "download_url": "https://xxx.obs.cn-north-7.ulanqab.huawei.com/video_089b2f9a3dxxxx062f24c00ca4ed6los_lihanhan_xxxxx.mp4"
  } ]
}
```

Status Codes

Status Code	Description
200	Response to the request for obtaining screen recording download addresses in batches.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.

Status Code	Description
500	An internal service error occurred. For details about the error code, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.19.5 Querying Key Desktop Events

Function

Queries key desktop events.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/screen-records/{record_id}/os-operations

Table 4-2462 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
record_id	Yes	String	UUID of a screen recording record.

Table 4-2463 Query Parameters

Parameter	Mandatory	Type	Description
event_type	No	String	Event type. <ul style="list-style-type: none"> • APP: application monitoring • FILE: file monitoring • REG: registry monitoring • HDP: protocol behavior monitoring

Parameter	Mandatory	Type	Description
event_id	No	String	Event ID. <ul style="list-style-type: none"> • APP_START: application startup • APP_STOP: application termination • APP_CRASH: abnormal application exit • APP_HANG: no application response • APP_INSTALL: application installation • APP_UNINSTALL: application uninstallation • FILE_CREATE: file creation • FILE_DELETE: file deletion • FILE_RENAME: file renaming • HDP_FILE: file redirection • HDP_USB: USB device insertion or removal • HDP_CLIPBOARD: clipboard operation • HDP_INPUTIDLE: idle • HDP_PRINT: file printing
event_level	No	String	Event severity. <ul style="list-style-type: none"> • INFO: Information • ALARM: Alarm • ERROR: Error
event_data	No	String	Event content.
limit	No	Integer	Limits the quantity of returned desktops in pagination query. The value ranges from 0 to 100. The default value is 10 .
offset	No	Integer	Where the pagination query starts. The value starts from 0 .

Request Parameters

Table 4-2464 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API that is used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-2465 Response body parameters

Parameter	Type	Description
operations	Array of OperationForList objects	Operation record.
total_count	Integer	Total number.

Table 4-2466 OperationForList

Parameter	Type	Description
id	String	Primary key UUID.
project_id	String	Project ID.
desktop_id	String	Desktop ID.
screen_record_id	String	Screen recording record ID.
username	String	Username.
event_type	String	Event type. <ul style="list-style-type: none"> • APP: application monitoring • FILE: file monitoring • REG: registry monitoring • HDP: protocol behavior monitoring

Parameter	Type	Description
event_level	String	Event severity. <ul style="list-style-type: none"> • INFO: Information • ALARM: Alarm • ERROR: Error
event_id	String	Event ID. <ul style="list-style-type: none"> • APP_START: application startup • APP_STOP: application termination • APP_CRASH: abnormal application exit • APP_HANG: no application response • APP_INSTALL: application installation • APP_UNINSTALL: application uninstallation • FILE_CREATE: file creation • FILE_DELETE: file deletion • FILE_RENAME: file renaming • HDP_FILE: file redirection • HDP_USB: USB device insertion or removal • HDP_CLIPBOARD: clipboard operation • HDP_INPUTIDLE: idle • HDP_PRINT: file printing
event_data	String	Event content.
operation_time	String	Operation time (2024-10-15T11:04:41.263Z).
relative_start_time	Integer	Time (in seconds) relative to the video start time.

Status code: 400**Table 4-2467** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Parameter	Type	Description
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401**Table 4-2468** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-2469** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-2470** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Parameter	Type	Description
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 405**Table 4-2471** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-2472** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 503**Table 4-2473** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Parameter	Type	Description
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
GET /v2/089b2f9a3d80d3062f24c00ca4ed5cbd/6c655e6a-xxxx-xxxx-xxxx-b7f0edc7a082/os-operations
```

Example Responses

Status code: 200

Queries key desktop events.

```
{
  "total_count": 2,
  "operations": [ {
    "id": "8ac225c2781f230a01781f29b2e7xxxx",
    "desktop_id": "7f1ac068-xxxx-xxxx-xxxx-535f4b315958",
    "screen_record_id": "7f1ac068-xxxx-xxxx-xxxx-535f4b31111",
    "username": "chenxxx",
    "event_type": "APP",
    "event_level": "Information",
    "event_id": "APP_START",
    "event_data": "WeLink is started.",
    "operation_time": "2024-03-12 12:02:01",
    "relative_start_time": 16
  }, {
    "id": "8ac225c2781edb0d01781edde3f4xxxx",
    "desktop_id": "7f1ac068-xxxx-xxxx-xxxx-535f4b315959",
    "screen_record_id": "7f1ac068-xxxx-xxxx-xxxx-535f4b32222",
    "username": "wanghaha",
    "event_type": "FILE",
    "event_level": "Error",
    "event_id": "FILE_DELETE",
    "event_data": "File deletion",
    "operation_time": "2024-03-12 12:02:01",
    "relative_start_time": 16
  }
  ]
}
```

Status Codes

Status Code	Description
200	Queries key desktop events.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.

Status Code	Description
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details about the error code, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.20 Scheduled Tasks

4.20.1 Querying Scheduled Tasks

Function

Query scheduled tasks.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/scheduled-tasks

Table 4-2474 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-2475 Query Parameters

Parameter	Mandatory	Type	Description
offset	Yes	Integer	Start position for pagination query. The value starts from 0.
limit	Yes	Integer	Specifies the number of records displayed on each page. The value ranges from 0 to 50.

Parameter	Mandatory	Type	Description
task_name	No	String	Task name.
task_type	No	String	Task type. The value can be START (starting a desktop), STOP (stopping a desktop), REBOOT (restarting a desktop), HIBERNATE (hibernating a desktop), REBUILD (recomposing the system disk), EXECUTE_SCRIPT (executing a script), or CREATE_SNAPSHOT (creating a snapshot).
scheduled_type	No	String	Execution period type. FIXED_TIME : specified time; DAY : by day; WEEK : by week; MONTH : by month; LIFE_CYCLE : triggered. Triggered tasks are returned only when LIFE_CYCLE is specified.
life_cycle_type	No	String	Triggering condition type. The value can be POST_CREATE_DESKTOP_SUCCESS (after the desktop is created), POST_REBUILD_DESKTOP_SUCCESS (after the desktop is rebuilt), POST_REATTACH_DESKTOP_SUCCESS (after the desktop assignment task for triggering the rebuilding is successfully executed), or POST_DESKTOP_DISCONNECTED (after the desktop is disconnected).
last_status	No	String	Latest execution status. SUCCESS : successful; SKIP : skip; FAIL : failed.

Request Parameters

Table 4-2476 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-2477 Response body parameters

Parameter	Type	Description
scheduled_tasks	Array of ScheduledTask objects	Scheduled tasks.
total_count	Integer	Total number.

Table 4-2478 ScheduledTask

Parameter	Type	Description
id	String	Task ID.
task_name	String	Task name.
task_type	String	Task type. The value can be START (starting a desktop), STOP (stopping a desktop), REBOOT (restarting a desktop), HIBERNATE (hibernating a desktop), REBUILD (recomposing the system disk), EXECUTE_SCRIPT (executing a script), or CREATE_SNAPSHOT (creating a snapshot).
scheduled_type	String	Execution interval. FIXED_TIME : specified time. DAY : by day. WEEK : by week. MONTH : by month.
life_cycle_type	String	Triggering scenario type.

Parameter	Type	Description
last_status	String	Latest execution status. SUCCESS: successful; SKIP: skip; FAIL: failed.
next_execution_time	String	Next execution time. The format is yyyy-MM-dd HH:mm:ss.
enable	Boolean	Indicates whether to enable the function.
description	String	Description.
priority	Integer	Specifies the rule priority. This parameter is used for triggered tasks.
time_zone	String	Time zone.
wait_time	Integer	Waiting duration after a triggered task is triggered.

Status code: 400**Table 4-2479** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-2480** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.

Parameter	Type	Description
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

None

Example Responses

Status code: 200

Response to the request for querying scheduled tasks.

```
{
  "scheduled_tasks": [ {
    "id": "2b31e-d520xxx-xxebdb6-e57xxxxx",
    "task_name": "Test task",
    "task_type": "START",
    "scheduled_type": "FIXED_TIME",
    "life_cycle_type": "string",
    "last_status": "SUCCESS",
    "next_execution_time": "2022-12-23 09:00:00",
    "enable": true,
    "description": "A description.",
    "priority": 0,
    "time_zone": "string",
    "wait_time": 0
  } ],
  "total_count": 10
}
```

Status Codes

Status Code	Description
200	Response to the request for querying scheduled tasks.
400	The request cannot be understood by the server due to malformed syntax.
500	An internal service error occurred. For details about the error code, see the error code description.

Error Codes

See [Error Codes](#).

4.20.2 Creating a Scheduled Task

Function

Creates a scheduled task.

To use this function, you need to authorize the cloud service by calling the API for enabling the agency function.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2/{project_id}/scheduled-tasks

Table 4-2481 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-2482 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 4-2483 Request body parameters

Parameter	Mandatory	Type	Description
scheduled_type	No	String	Execution period type. The options are as follows: <ul style="list-style-type: none"> • FIXED_TIME: specified time. • DAY: by day. • WEEK: by week. • MONTH: by month. • LIFE_CYCLE: The event is triggered in a specified scenario.
day_interval	No	Integer	If the period is by day, the task is executed at an interval of <i>x</i> days.
week_list	No	String	When this parameter is set to WEEK , the value ranges from 1 to 7, corresponding to Sunday to Saturday, respectively. The values are separated by commas (,), for example, 1,2,7.
month_list	No	String	If the period is by month, the value ranges from 1 to 12. Multiple values are separated by commas (,), for example, 1,3,12.
date_list	No	String	If the period is by month, the value ranges from 1 to 31 and L (indicating the last day of the current month). The values are separated by commas (,), for example, 1,2,28,L.
scheduled_date	No	String	If the period is specified, the value is a specified date in yyyy-MM-dd.
scheduled_time	No	String	Specified execution time. The format is HH:mm:ss.
expire_time	No	String	Expiration time in yyyy-MM-dd HH:mm:ss.
gray_count	No	Integer	Number of gray objects. The priority is higher than that of gray_desktop_ids. Only script execution is supported.

Parameter	Mandatory	Type	Description
gray_desktop_ids	No	Array of strings	Specifies the desktop ID list for gray execution. The priority of this parameter is lower than that of gray_count. Only script execution is supported.
gray_fail_threshold	No	Integer	Gray failure threshold. When the number of gray execution failures reaches the value of this parameter, the next batch of tasks are not executed. Only script execution is supported.
life_cycle_type	No	String	Triggering condition. The value can be POST_CREATE_DESKTOP_SUCCESS (after the desktop is created), POST_REBUILD_DESKTOP_SUCCESS (after the desktop is rebuilt), POST_REATTACH_DESKTOP_SUCCESS (after the desktop assignment task for triggering the rebuilding is successfully executed), or POST_DESKTOP_DISCONNECTED (after the desktop is disconnected).
time_zone	No	String	Time zone.
task_type	Yes	String	Task type. Options: <ul style="list-style-type: none"> • START: starting a desktop • STOP: stopping a desktop • REBOOT: restarting a desktop • HIBERNATE: hibernating a desktop • REBUILD: recomposing the system disk • EXECUTE_SCRIPT: executing a script • CREATE_SNAPSHOT: creating a snapshot
task_name	Yes	String	Task name.

Parameter	Mandatory	Type	Description
force_execute	No	Boolean	Indicates whether to forcibly execute the task. The value true indicates that the task is forcibly executed, and the value false indicates that the task is not forcibly executed.
description	No	String	Description.
extra_params	No	String	Extended parameter in JSON format.
apply_objects	No	Array of ApplyObject objects	Objects to which a scheduled task applies.
wait_time	No	Integer	Waiting duration after a triggered task is triggered.

Table 4-2484 ApplyObject

Parameter	Mandatory	Type	Description
object_id	No	String	Object ID.
object_type	No	String	Object type. Options: <ul style="list-style-type: none"> • DESKTOP: desktop • DESKTOP_POOL: desktop pool • ALL_DESKTOPS: all desktops • DESKTOP_TAG: desktop tag

Response Parameters

Status code: 200

Normal.

Status code: 400

Table 4-2485 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.

Parameter	Type	Description
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500

Table 4-2486 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
{
  "scheduled_type": "FIXED_TIME",
  "day_interval": 1,
  "week_list": "1,2,7",
  "month_list": "1,3,12",
  "date_list": "1,2,28,L",
  "scheduled_date": "2022-12-23",
  "scheduled_time": "09:00:00",
  "expire_time": "2022-12-31 09:00:00",
  "gray_count": 1000,
  "gray_desktop_ids": [ "string" ],
  "gray_fail_threshold": 1000,
  "life_cycle_type": "string",
  "time_zone": "Asia/Shanghai",
  "task_type": "START",
  "task_name": "Test task",
  "force_execute": false,
  "description": "A description.",
  "extra_params": "{ \"notify_message\": \"Test\" }",
  "apply_objects": [ {
    "object_id": "2b31e-d520xxx-xxebdb6-e57xxxxx",
    "object_type": "DESKTOP"
  } ],
  "wait_time": 0
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Normal.
400	The request cannot be understood by the server due to malformed syntax.
500	An internal service error occurred. For details about the error code, see the error code description.

Error Codes

See [Error Codes](#).

4.20.3 Querying Details About a Scheduled Task

Function

Query details about a scheduled task.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/scheduled-tasks/{task_id}

Table 4-2487 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
task_id	Yes	String	Task ID.

Request Parameters

Table 4-2488 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-2489 Response body parameters

Parameter	Type	Description
id	String	Task ID.
task_type	String	Task type START: start; STOP: stop; REBOOT: restart; HIBERNATE: hibernate; REBUILD: rebuild the system disk; EXECUTE_SCRIPT: execute the script. If scheduled_type is set to LIFE_CYCLE, START and REBUILD are not supported.
task_name	String	Task name.
force_execute	Boolean	Indicates whether to forcibly execute the task.
scheduled_type	String	Execution period type. FIXED_TIME: specified time; DAY: by day; WEEK: by week; MONTH: by month; LIFE_CYCLE: triggered in a specified scenario.

Parameter	Type	Description
life_cycle_type	String	Triggering scenario type. This parameter is valid only when scheduled_type is set to LIFE_CYCLE. POST_CREATE_DESKTOP_SUCCESS: After the desktop is successfully created. POST_REBUILD_DESKTOP_SUCCESS: After the desktop is successfully rebuilt. POST_REATTACH_DESKTOP_SUCCESS: After the user assignment task for triggering the rebuilding is successful.
day_interval	Integer	If the period is by day, the task is executed at an interval of <i>x</i> days.
week_list	String	When this parameter is set to WEEK , the value ranges from 1 to 7, corresponding to Sunday to Saturday, respectively. The values are separated by commas (,), for example, 1,2,7.
month_list	String	If the period is by month, the value ranges from 1 to 12. Multiple values are separated by commas (,), for example, 1,3,12.
date_list	String	If the period is by month, the value ranges from 1 to 31 and L (indicating the last day of the current month). The values are separated by commas (,), for example, 1,2,28,L.
scheduled_date	String	If the period is specified, the value is a specified date in yyyy-MM-dd.
scheduled_time	String	Specified execution time. The format is HH:mm:ss.
expire_time	String	Expiration time in yyyy-MM-dd HH:mm:ss.
description	String	Description.
extra_params	String	Extended parameter in JSON format.
apply_objects	Array of ApplyObject objects	Objects to which a scheduled task applies.
gray_count	Integer	Number of objects for grayscale release. This parameter takes precedence over gray_desktop_ids .

Parameter	Type	Description
gray_desktop_ids	Array of strings	IDs of the desktops for grayscale release. gray_count takes precedence over this parameter.
gray_fail_threshold	Integer	Grayscale release failure threshold. When the number of grayscale release failures reaches the value of this parameter, the next batch of tasks will not be executed.
time_zone	String	Time zone.
wait_time	Integer	Waiting duration after a triggered task is triggered.

Table 4-2490 ApplyObject

Parameter	Type	Description
object_id	String	Object ID.
object_type	String	Object type. Options: <ul style="list-style-type: none"> • DESKTOP: desktop • DESKTOP_POOL: desktop pool • ALL_DESKTOPS: all desktops • DESKTOP_TAG: desktop tag
object_name	String	Object name.

Status code: 400**Table 4-2491** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500

Table 4-2492 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

None

Example Responses

Status code: 200

Normal.

```
{
  "id" : "2b31e-d520xxx-xxebdb6-e57xxxxx",
  "task_type" : "START",
  "task_name" : "Test task",
  "force_execute" : true,
  "scheduled_type" : "FIXED_TIME",
  "life_cycle_type" : "string",
  "day_interval" : 1,
  "week_list" : "1,2,7",
  "month_list" : "1,3,12",
  "date_list" : "1,2,28,L",
  "scheduled_date" : "2022-12-23",
  "scheduled_time" : "09:00:00",
  "expire_time" : "2022-12-31 09:00:00",
  "description" : "A description.",
  "extra_params" : "{ \"notify_message\": \"Test\" }",
  "apply_objects" : [ {
    "object_id" : "2b31e-d520xxx-xxebdb6-e57xxxxx",
    "object_type" : "DESKTOP",
    "object_name" : "Test desktop"
  } ],
  "gray_count" : 0,
  "gray_desktop_ids" : [ "string" ],
  "gray_fail_threshold" : 0,
  "time_zone" : "GMT+8",
  "wait_time" : 0
}
```

Status Codes

Status Code	Description
200	Normal.
400	The request cannot be understood by the server due to malformed syntax.
500	An internal service error occurred. For details about the error code, see the error code description.

Error Codes

See [Error Codes](#).

4.20.4 Modifying a Scheduled Task

Function

Modify a scheduled task.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT /v2/{project_id}/scheduled-tasks/{task_id}

Table 4-2493 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
task_id	Yes	String	Task ID.

Request Parameters

Table 4-2494 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 4-2495 Request body parameters

Parameter	Mandatory	Type	Description
scheduled_type	No	String	Execution period type. The options are as follows: <ul style="list-style-type: none"> • FIXED_TIME: specified time. • DAY: by day. • WEEK: by week. • MONTH: by month. • LIFE_CYCLE: The event is triggered in a specified scenario.
day_interval	No	Integer	If the period is by day, the task is executed at an interval of <i>x</i> days.
week_list	No	String	When this parameter is set to WEEK , the value ranges from 1 to 7, corresponding to Sunday to Saturday, respectively. The values are separated by commas (,), for example, 1,2,7.
month_list	No	String	If the period is by month, the value ranges from 1 to 12. Multiple values are separated by commas (,), for example, 1,3,12.

Parameter	Mandatory	Type	Description
date_list	No	String	If the period is by month, the value ranges from 1 to 31 and L (indicating the last day of the current month). The values are separated by commas (,), for example, 1,2,28,L.
scheduled_date	No	String	If the period is specified, the value is a specified date in yyyy-MM-dd.
scheduled_time	No	String	Specified execution time. The format is HH:mm:ss.
expire_time	No	String	Expiration time in yyyy-MM-dd HH:mm:ss.
gray_count	No	Integer	Number of gray objects. The priority is higher than that of gray_desktop_ids. Only script execution is supported.
gray_desktop_ids	No	Array of strings	Specifies the desktop ID list for gray execution. The priority of this parameter is lower than that of gray_count. Only script execution is supported.
gray_fail_threshold	No	Integer	Gray failure threshold. When the number of gray execution failures reaches the value of this parameter, the next batch of tasks are not executed. Only script execution is supported.
life_cycle_type	No	String	Triggering condition. The value can be POST_CREATE_DESKTOP_SUCCESS (after the desktop is created), POST_REBUILD_DESKTOP_SUCCESS (after the desktop is rebuilt), POST_REATTACH_DESKTOP_SUCCESS (after the desktop assignment task for triggering the rebuilding is successfully executed), or POST_DESKTOP_DISCONNECTED (after the desktop is disconnected).

Parameter	Mandatory	Type	Description
time_zone	No	String	Time zone.
task_name	No	String	Task name.
force_execute	No	Boolean	Whether to force execute the task.
description	No	String	Description.
enable	No	Boolean	Enabled or not.
extra_params	No	String	Extended parameter in JSON format.
apply_objects	No	Array of ApplyObject objects	Objects to which a scheduled task applies.
priority	No	Integer	Specifies the rule priority. This parameter is used for triggered tasks.
is_gray	No	Boolean	Indicates whether a task is executed in gray mode, which is used by remote scripts.
wait_time	No	Integer	Waiting duration after a triggered task is triggered.

Table 4-2496 ApplyObject

Parameter	Mandatory	Type	Description
object_id	No	String	Object ID.
object_type	No	String	Object type. Options: <ul style="list-style-type: none"> • DESKTOP: desktop • DESKTOP_POOL: desktop pool • ALL_DESKTOPS: all desktops • DESKTOP_TAG: desktop tag

Response Parameters

Status code: 200

Normal.

Status code: 400

Table 4-2497 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-2498** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
{
  "scheduled_type": "FIXED_TIME",
  "day_interval": 1,
  "week_list": "1,2,7",
  "month_list": "1,3,12",
  "date_list": "1,2,28,L",
  "scheduled_date": "2022-12-23",
  "scheduled_time": "09:00:00",
  "expire_time": "2022-12-31 09:00:00",
  "gray_count": 1000,
  "gray_desktop_ids": [ "string" ],
  "gray_fail_threshold": 1000,
  "life_cycle_type": "string",
  "time_zone": "Asia/Shanghai",
  "task_name": "Test task",
  "force_execute": false,
  "description": "A description.",
  "enable": true,
  "extra_params": "{ \"notify_message\": \"Test\" }",
  "apply_objects": [ {
    "object_id": "2b31e-d520xxxx-xxebdb6-e57xxxxxx",

```

```

    "object_type" : "DESKTOP"
  } ],
  "priority" : 50,
  "is_gray" : true,
  "wait_time" : 43200
}

```

Example Responses

None

Status Codes

Status Code	Description
200	Normal.
400	The request cannot be understood by the server due to malformed syntax.
500	An internal service error occurred. For details about the error code, see the error code description.

Error Codes

See [Error Codes](#).

4.20.5 Deleting a Scheduled Task

Function

Delete a scheduled task.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

DELETE /v2/{project_id}/scheduled-tasks/{task_id}

Table 4-2499 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
task_id	Yes	String	Task ID.

Request Parameters

Table 4-2500 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Normal.

Status code: 400

Table 4-2501 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500

Table 4-2502 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.

Parameter	Type	Description
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	Normal.
400	The request cannot be understood by the server due to malformed syntax.
500	An internal service error occurred. For details about the error code, see the error code description.

Error Codes

See [Error Codes](#).

4.20.6 List of Future Execution Time

Function

List of future execution time.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2/{project_id}/scheduled-tasks/future-executions

Table 4-2503 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-2504 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 4-2505 Request body parameters

Parameter	Mandatory	Type	Description
scheduled_type	No	String	Execution period type. The options are as follows: <ul style="list-style-type: none"> • FIXED_TIME: specified time. • DAY: by day. • WEEK: by week. • MONTH: by month. • LIFE_CYCLE: The event is triggered in a specified scenario.
day_interval	No	Integer	If the period is by day, the task is executed at an interval of <i>x</i> days.
week_list	No	String	When this parameter is set to WEEK , the value ranges from 1 to 7, corresponding to Sunday to Saturday, respectively. The values are separated by commas (,), for example, 1,2,7.

Parameter	Mandatory	Type	Description
month_list	No	String	If the period is by month, the value ranges from 1 to 12. Multiple values are separated by commas (,), for example, 1,3,12.
date_list	No	String	If the period is by month, the value ranges from 1 to 31 and L (indicating the last day of the current month). The values are separated by commas (,), for example, 1,2,28,L.
scheduled_date	No	String	If the period is specified, the value is a specified date in yyyy-MM-dd.
scheduled_time	No	String	Specified execution time. The format is HH:mm:ss.
expire_time	No	String	Expiration time in yyyy-MM-dd HH:mm:ss.
gray_count	No	Integer	Number of gray objects. The priority is higher than that of gray_desktop_ids. Only script execution is supported.
gray_desktop_ids	No	Array of strings	Specifies the desktop ID list for gray execution. The priority of this parameter is lower than that of gray_count. Only script execution is supported.
gray_fail_threshold	No	Integer	Gray failure threshold. When the number of gray execution failures reaches the value of this parameter, the next batch of tasks are not executed. Only script execution is supported.

Parameter	Mandatory	Type	Description
life_cycle_type	No	String	Triggering condition. The value can be POST_CREATE_DESKTOP_SUCCESS (after the desktop is created), POST_REBUILD_DESKTOP_SUCCESS (after the desktop is rebuilt), POST_REATTACH_DESKTOP_SUCCESS (after the desktop assignment task for triggering the rebuilding is successfully executed), or POST_DESKTOP_DISCONNECTED (after the desktop is disconnected).
time_zone	No	String	Time zone.

Response Parameters

Status code: 200

Table 4-2506 Response body parameters

Parameter	Type	Description
future_executions	Array of strings	List of future execution time.

Status code: 400

Table 4-2507 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-2508** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
{
  "scheduled_type": "FIXED_TIME",
  "day_interval": 1,
  "week_list": "1,2,7",
  "month_list": "1,3,12",
  "date_list": "1,2,28,L",
  "scheduled_date": "2022-12-23",
  "scheduled_time": "09:00:00",
  "expire_time": "2022-12-31 09:00:00",
  "gray_count": 1000,
  "gray_desktop_ids": [ "string" ],
  "gray_fail_threshold": 1000,
  "life_cycle_type": "string",
  "time_zone": "Asia/Shanghai"
}
```

Example Responses**Status code: 200**

Normal.

```
{
  "future_executions": [ "string" ]
}
```

Status Codes

Status Code	Description
200	Normal.
400	The request cannot be understood by the server due to malformed syntax.
500	An internal service error occurred. For details about the error code, see the error code description.

Error Codes

See [Error Codes](#).

4.20.7 Deleting Scheduled Tasks in Batches

Function

Delete scheduled tasks in batches.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2/{project_id}/scheduled-tasks/batch-delete

Table 4-2509 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-2510 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 4-2511 Request body parameters

Parameter	Mandatory	Type	Description
task_ids	No	Array of strings	IDs of tasks to be deleted.

Response Parameters

Status code: 200

Normal.

Status code: 400

Table 4-2512 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500

Table 4-2513 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
{
  "task_ids" : [ "string" ]
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Normal.
400	The request cannot be understood by the server due to malformed syntax.
500	An internal service error occurred. For details about the error code, see the error code description.

Error Codes

See [Error Codes](#).

4.20.8 Querying the Execution Records of a Scheduled Task

Function

Query the execution records of a scheduled task.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/scheduled-tasks/{task_id}/records

Table 4-2514 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
task_id	Yes	String	Task ID.

Table 4-2515 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Where the pagination query starts. The value starts from 0 .

Parameter	Mandatory	Type	Description
limit	No	Integer	Limits the quantity of returned desktops in pagination query. The value ranges from 0 to 100. The default value is 10 .

Request Parameters

Table 4-2516 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-2517 Response body parameters

Parameter	Type	Description
tasks_records	Array of ScheduledTasksRecords objects	Scheduled task execution records.
total_count	Integer	Total number.

Table 4-2518 ScheduledTasksRecords

Parameter	Type	Description
id	String	Task execution record ID.
start_time	String	Execution time in yyyy-MM-dd HH:mm:ss.
task_type	String	Task type. START: start; STOP: stop; REBOOT: restart; HIBERNATE: hibernate; REBUILD: recompose the system disk.

Parameter	Type	Description
scheduled_type	String	Execution period type. FIXED_TIME: specified time. DAY: by day. WEEK: by week. MONTH: by month.
life_cycle_type	String	Triggering scenario type.
status	String	Execution status.
success_num	Integer	Number of successful desktops.
failed_num	Integer	Specifies the number of failed desktops.
skip_num	Integer	Number of skipped desktops.
time_zone	String	Time zone.
execute_task_id	String	ID of the scheduled task to be executed. This parameter is returned only when the scheduled script is executed.
execute_object_type	String	Object type of the scheduled task to be executed. This parameter is returned only when the scheduled script is executed.

Status code: 400**Table 4-2519** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500

Table 4-2520 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

None

Example Responses

Status code: 200

Normal.

```
{
  "tasks_records": [ {
    "id": "2b31e-d520xxx-xxebdb6-e57xxxxx",
    "start_time": "2022-12-31 09:00:00",
    "task_type": "START",
    "scheduled_type": "FIXED_TIME",
    "status": "SUCCESS",
    "success_num": 1,
    "failed_num": 1,
    "skip_num": 1,
    "time_zone": "Asia/Shanghai",
    "execute_task_id": "string",
    "execute_object_type": "string"
  } ],
  "total_count": 10
}
```

Status Codes

Status Code	Description
200	Normal.
400	The request cannot be understood by the server due to malformed syntax.
500	An internal service error occurred. For details about the error code, see the error code description.

Error Codes

See [Error Codes](#).

4.20.9 Querying Details About Scheduled Task Execution Records

Function

Query details about scheduled task execution records.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/scheduled-tasks/{task_id}/records/{record_id}

Table 4-2521 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
task_id	Yes	String	Task ID.
record_id	Yes	String	ID of a task execution record.

Table 4-2522 Query Parameters

Parameter	Mandatory	Type	Description
offset	Yes	Integer	Start position for pagination query. The value starts from 0.
limit	Yes	Integer	Number of records displayed on each page. The value ranges from 0 to 100.

Request Parameters

Table 4-2523 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-2524 Response body parameters

Parameter	Type	Description
tasks_records_details	Array of ScheduledTasksRecordsDetails objects	Scheduled task execution records.
total_count	Integer	Total number.

Table 4-2525 ScheduledTasksRecordsDetails

Parameter	Type	Description
id	String	Task execution record detail ID.
record_id	String	Task execution record ID.
desktop_id	String	Desktop ID.
desktop_name	String	Desktop name.
exec_status	String	Execution status.
exec_script_id	String	ID of the script to be executed.
result_code	String	Error code of the cause of failure or skip.
fail_reason	String	Cause of failure or skip.
start_time	String	Execution start time in yyyy-MM-dd HH:mm:ss.

Parameter	Type	Description
end_time	String	Execution end time in yyyy-MM-dd HH:mm:ss.
time_zone	String	Time zone.

Status code: 400**Table 4-2526** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-2527** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

None

Example Responses**Status code: 200**

Normal.

```
{
  "tasks_records_details": [ {
    "id": "2b31e-d520xxx-xxebedb6-e57xxxxx",
    "record_id": "2b31e-d520xxx-xxebedb6-e57xxxxx",
    "desktop_id": "2b31e-d520xxx-xxebedb6-e57xxxxx",
    "desktop_name": "desktop1",
    "exec_status": "SUCCESS",
    "exec_script_id": "string",
    "result_code": "WKS.000x",
    "fail_reason": "Task conflict",
    "start_time": "2022-12-31 09:00:00",
    "end_time": "2022-12-31 09:00:00",
    "time_zone": "Asia/Shanghai"
  } ],
  "total_count": 10
}
```

Status Codes

Status Code	Description
200	Normal.
400	The request cannot be understood by the server due to malformed syntax.
500	An internal service error occurred. For details about the error code, see the error code description.

Error Codes

See [Error Codes](#).

4.20.10 Obtaining Time Zone Configurations

Function

Obtains time zone configurations.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/common/timezones

Table 4-2528 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-2529 Query Parameters

Parameter	Mandatory	Type	Description
time_zone_name	No	String	Filters by time zone name.

Request Parameters

Table 4-2530 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-2531 Response body parameters

Parameter	Type	Description
time_zones	Array of Timezones objects	Time zone list.

Table 4-2532 Timezones

Parameter	Type	Description
time_zone_desc	String	Time zone description.
time_zone	String	Time zone offset.

Parameter	Type	Description
time_zone_name	String	Time zone name.
time_zone_desc_us	String	Time zone description in English.
time_zone_desc_cn	String	Time zone description in Chinese.

Status code: 400**Table 4-2533** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-2534** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-2535** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Parameter	Type	Description
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500

Table 4-2536 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

None

Example Responses

Status code: 200

Time zone configuration response.

```
{
  "time_zones": [ {
    "time_zone_desc": "(GMT+08:00) Beijing, Chongqing, Hong Kong, Urumqi, Taipei",
    "time_zone": "GMT+08:00",
    "time_zone_name": "Asia/Shanghai",
    "time_zone_desc_us": "(GMT+08:00) Beijing, Chongqing, Hong Kong, Urumqi, Taipei",
    "time_zone_desc_cn": "(GMT+08:00) Beijing, Chongqing, Hong Kong, Urumqi, and Taipei"
  } ]
}
```

Status Codes

Status Code	Description
200	Time zone configuration response.
400	The request cannot be understood by the server due to malformed syntax.
403	No operation permissions.

Status Code	Description
404	No resources found.
500	An internal service error occurred. For details, see the error code description.

Error Codes

See [Error Codes](#).

4.21 Report Statistics

4.21.1 Querying Period-on-Period Metrics

Function

Queries period-on-period metrics.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/statistics/growth-rate

Table 4-2537 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-2538 Query Parameters

Parameter	Mandatory	Type	Description
grow_period	No	String	Chain comparison period. The value can be DAY (daily) or MONTH (monthly).
metric_name	Yes	String	Metric name.

Parameter	Mandatory	Type	Description
dim	No	String	Metric dimension. A maximum of three dimensions are supported, and the dimensions are numbered from 0 in dim. <i>{i}=key,value</i> format. <i>key</i> cannot exceed 32 characters and <i>value</i> cannot exceed 256 characters. Single-dimension: dim.0=instance_id,6f3c6f91-4b24-4e1b-b7d1-a94ac1cb011d. Multi-dimension: dim.0=key,value&dim.1=key,value.

Request Parameters

Table 4-2539 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-2540 Response body parameters

Parameter	Type	Description
growth_rate	Double	Period-on-period ratio.

Status code: 400

Table 4-2541 Response body parameters

Parameter	Type	Description
error_code	String	Error code.

Parameter	Type	Description
error_msg	String	Error message.

Status code: 401**Table 4-2542** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 500**Table 4-2543** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

None

Example Responses**Status code: 200**

Succeeded.

```
{
  "growth_rate" : 0.1
}
```

Status Codes

Status Code	Description
200	Succeeded.
400	Invalid request from the client.
401	Authentication failed.
500	Internal error.

Error Codes

See [Error Codes](#).

4.21.2 Querying Metrics

Function

Queries metrics.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/statistics/metrics

Table 4-2544 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-2545 Query Parameters

Parameter	Mandatory	Type	Description
start_time	Yes	String	Start time (UTC).
end_time	Yes	String	End time (UTC).
dim	No	String	Metric dimension. A maximum of three dimensions are supported, and the dimensions are numbered from 0 in dim. {i}=key,value format. key cannot exceed 32 characters and value cannot exceed 256 characters. Single-dimension: dim.0=instance_id,6f3c6f91-4b24-4e1b-b7d1-a94ac1cb011d. Multi-dimension: dim.0=key,value&dim.1=key,value.

Parameter	Mandatory	Type	Description
metric_names	Yes	Array of strings	Metric name list. For details about the supported metric names, see Workspace O&M Monitoring Metrics .
period	No	String	Data period. The value can be DAY (daily) or HOURLY (hourly).

Request Parameters

Table 4-2546 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-2547 Response body parameters

Parameter	Type	Description
[items]	Array of Metric objects	Response body for querying metrics.

Table 4-2548 Metric

Parameter	Type	Description
metric_name	String	Metric name.
metric_value	Double	Metric value.

Status code: 400

Table 4-2549 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 401**Table 4-2550** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 500**Table 4-2551** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

None

Example Responses**Status code: 200**

Succeeded.

```
[{
  "metric_name": "desktop_state",
  "metric_value": 10
}]
```

Status Codes

Status Code	Description
200	Succeeded.

Status Code	Description
400	Invalid request from the client.
401	Authentication failed.
500	Internal error.

Error Codes

See [Error Codes](#).

4.21.3 Querying Metric Trends

Function

Queries metric trends.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/statistics/metrics/trend

Table 4-2552 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-2553 Query Parameters

Parameter	Mandatory	Type	Description
start_time	Yes	String	Start time.
end_time	Yes	String	End time.

Parameter	Mandatory	Type	Description
dim	No	String	Metric dimension. A maximum of three dimensions are supported, and the dimensions are numbered from 0 in dim. <i>{i}=key,value</i> format. <i>key</i> cannot exceed 32 characters and <i>value</i> cannot exceed 256 characters. Single-dimension: dim.0=instance_id,6f3c6f91-4b24-4e1b-b7d1-a94ac1cb011d. Multi-dimension: dim.0=key,value&dim.1=key,value.
metric_names	Yes	Array of strings	Metric name list. For details about the supported metric names, see Workspace O&M Monitoring Metrics .
period	No	String	Data period. The value can be MIN (per minute), 5MIN (per 5 minutes), DAY (daily), or HOURLY (hourly).

Request Parameters

Table 4-2554 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-2555 Response body parameters

Parameter	Type	Description
[items]	Array of MetricsWithTime objects	Response to the request for querying metric trends.

Table 4-2556 MetricsWithTime

Parameter	Type	Description
time	String	Time.
metrics	Array of Metric objects	Metric value.

Table 4-2557 Metric

Parameter	Type	Description
metric_name	String	Metric name.
metric_value	Double	Metric value.

Status code: 400**Table 4-2558** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 401**Table 4-2559** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 500

Table 4-2560 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

None

Example Responses

Status code: 200

Succeeded.

```
[ {
  "time" : "string",
  "metrics" : [ {
    "metric_name" : "desktop_state",
    "metric_value" : 10
  } ]
} ]
```

Status Codes

Status Code	Description
200	Succeeded.
400	Invalid request from the client.
401	Authentication failed.
500	Internal error.

Error Codes

See [Error Codes](#).

4.21.4 Updating a Notification Rule

Function

Updates notification rules of the corresponding metric. A notification is sent when the rules are met.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT /v2/{project_id}/statistics/notify-rules/{rule_id}

Table 4-2561 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
rule_id	Yes	String	Notification rule ID.

Request Parameters

Table 4-2562 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 4-2563 Request body parameters

Parameter	Mandatory	Type	Description
metric_name	No	String	Metric name. Currently, the value can only be desktop_idle_duration , which is fixed. The rules of the same metric must be unique. <ul style="list-style-type: none"> <i>desktop_idle_duration</i> - Desktop idle duration
threshold	No	Integer	Rule configuration - Threshold (day)

Parameter	Mandatory	Type	Description
comparison_operator	No	String	Condition for comparing a metric statistical value with the threshold. <ul style="list-style-type: none"> • \geq - Triggered when the metric statistical value is greater than or equal to the threshold. • $>$ - Triggered when the metric statistical value is greater than the threshold. • $=$ - Triggered when the metric statistical value is equal to the threshold. • \leq - Triggered when the metric statistical value is less than or equal to the threshold. • $<$ - Triggered when the metric statistical value is less than the threshold.
interval	No	Integer	Interval for sending the next notification after the notification is triggered. The default value is once a day.
enable	No	Boolean	Whether to enable or disable a rule. true : enable; false : disable.
notify_object	No	String	Notification object; uniform resource name (URN) of an SMN topic.

Response Parameters

Status code: 200

Table 4-2564 Response body parameters

Parameter	Type	Description
rule_id	String	Rule ID.

Parameter	Type	Description
metric_name	String	Metric name. Currently, the value can only be desktop_idle_duration , which is fixed. <ul style="list-style-type: none"> <i>desktop_idle_duration</i> - Desktop idle duration
threshold	Integer	Statistical period (days).
comparison_operator	String	Condition for comparing a metric statistical value with the threshold. <ul style="list-style-type: none"> >= - Triggered when the metric statistical value is greater than or equal to the threshold. > - Triggered when the metric statistical value is greater than the threshold. = - Triggered when the metric statistical value is equal to the threshold. <= - Triggered when the metric statistical value is less than or equal to the threshold. < - Triggered when the metric statistical value is less than the threshold.
interval	Integer	Interval for sending the next notification after the notification is triggered. The default value is once a day.
enable	Boolean	Whether to enable or disable a rule. true : enable; false : disable.
notify_object	String	Notification object; uniform resource name (URN) of an SMN topic.

Status code: 400**Table 4-2565** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 401

Table 4-2566 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 500**Table 4-2567** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

```
{
  "metric_name": "desktop_idle_duration",
  "threshold": 30,
  "comparison_operator": ">=",
  "interval": 1,
  "enable": true,
  "notify_object": "urn:smn:REGION_ID:XXX-XXX-XXX:topicName"
}
```

Example Responses**Status code: 200**

Succeeded.

```
{
  "rule_id": "xxxx-xxxx-xxxx",
  "metric_name": "desktop_idle_duration",
  "threshold": 30,
  "comparison_operator": "",
  "interval": 1,
  "enable": true,
  "notify_object": "urn:smn:REGION_ID:XXX-XXX-XXX:topicName"
}
```

Status Codes

Status Code	Description
200	Succeeded.
400	Invalid request from the client.
401	Authentication failed.

Status Code	Description
500	Internal error.

Error Codes

See [Error Codes](#).

4.21.5 Deleting a Notification Rule

Function

Deletes notification rules of the corresponding metric. A notification is sent when the rules are met.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

DELETE /v2/{project_id}/statistics/notify-rules/{rule_id}

Table 4-2568 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
rule_id	Yes	String	Notification rule ID.

Request Parameters

Table 4-2569 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Succeeded.

Status code: 400

Table 4-2570 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 401

Table 4-2571 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 500

Table 4-2572 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	Succeeded.
400	Invalid request from the client.
401	Authentication failed.
500	Internal error.

Error Codes

See [Error Codes](#).

4.21.6 Adding a Notification Rule

Function

Adds notification rules of the corresponding metric. A notification is sent when the rules are met.

The rules of the same metric must be unique.

Metric name. Currently, the value can only be **desktop_idle_duration**, which is fixed.

- *desktop_idle_duration* - Desktop idle duration. Only '>=' threshold is allowed.

Note: You need to add an agency for the cloud service. Otherwise, notifications cannot be sent to SMN.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2/{project_id}/statistics/notify-rules

Table 4-2573 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-2574 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 4-2575 Request body parameters

Parameter	Mandatory	Type	Description
metric_name	Yes	String	Metric name. Currently, the value can only be desktop_idle_duration , which is fixed. The rules of the same metric must be unique. <ul style="list-style-type: none"> <i>desktop_idle_duration</i> - Desktop idle duration. Only '>=' threshold is allowed.
threshold	No	Integer	Rule configuration - Threshold (day)

Parameter	Mandatory	Type	Description
comparison_operator	Yes	String	Condition for comparing a metric statistical value with the threshold. <ul style="list-style-type: none"> • \geq - Triggered when the metric statistical value is greater than or equal to the threshold. • $>$ - Triggered when the metric statistical value is greater than the threshold. • $=$ - Triggered when the metric statistical value is equal to the threshold. • \leq - Triggered when the metric statistical value is less than or equal to the threshold. • $<$ - Triggered when the metric statistical value is less than the threshold.
interval	No	Integer	Interval for sending the next notification after the notification is triggered. The default value is once a day.
enable	Yes	Boolean	Whether to enable or disable a rule. true : enable; false : disable.
notify_object	Yes	String	Notification object; uniform resource name (URN) of an SMN topic.

Response Parameters

Status code: 200

Table 4-2576 Response body parameters

Parameter	Type	Description
rule_id	String	Rule ID.

Parameter	Type	Description
metric_name	String	Metric name. Currently, the value can only be desktop_idle_duration , which is fixed. <ul style="list-style-type: none"> <i>desktop_idle_duration</i> - Desktop idle duration
threshold	Integer	Statistical period (days).
comparison_operator	String	Condition for comparing a metric statistical value with the threshold. <ul style="list-style-type: none"> >= - Triggered when the metric statistical value is greater than or equal to the threshold. > - Triggered when the metric statistical value is greater than the threshold. = - Triggered when the metric statistical value is equal to the threshold. <= - Triggered when the metric statistical value is less than or equal to the threshold. < - Triggered when the metric statistical value is less than the threshold.
interval	Integer	Interval for sending the next notification after the notification is triggered. The default value is once a day.
enable	Boolean	Whether to enable or disable a rule. true : enable; false : disable.
notify_object	String	Notification object; uniform resource name (URN) of an SMN topic.

Status code: 400**Table 4-2577** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 401

Table 4-2578 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 500**Table 4-2579** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

```
{
  "metric_name": "desktop_idle_duration",
  "threshold": 30,
  "comparison_operator": ">=",
  "interval": 1,
  "enable": true,
  "notify_object": "urn:smn:REGION_ID:XXX-XXX-XXX:topicName"
}
```

Example Responses**Status code: 200**

Succeeded.

```
{
  "rule_id": "xxxx-xxxx-xxxx",
  "metric_name": "desktop_idle_duration",
  "threshold": 30,
  "comparison_operator": "",
  "interval": 1,
  "enable": true,
  "notify_object": "urn:smn:REGION_ID:XXX-XXX-XXX:topicName"
}
```

Status Codes

Status Code	Description
200	Succeeded.
400	Invalid request from the client.
401	Authentication failed.

Status Code	Description
500	Internal error.

Error Codes

See [Error Codes](#).

4.21.7 Querying Notification Rules

Function

Queries notification rules of the corresponding metric.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/statistics/notify-rules

Table 4-2580 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-2581 Query Parameters

Parameter	Mandatory	Type	Description
metric_name	No	String	Metric name (exact match).
rule_id	No	String	Notification rule ID.
offset	No	Integer	Query offset. The default value is 0 .
limit	No	Integer	The number of records for each query ranges from 1 to 100. The default value is 10 .

Request Parameters

Table 4-2582 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-2583 Response body parameters

Parameter	Type	Description
count	Integer	Total number.
items	Array of MetricNotifyRule objects	Rules.

Table 4-2584 MetricNotifyRule

Parameter	Type	Description
rule_id	String	Rule ID.
metric_name	String	Metric name. Currently, the value can only be desktop_idle_duration , which is fixed. <ul style="list-style-type: none"> <i>desktop_idle_duration</i> - Desktop idle duration
threshold	Integer	Statistical period (days).

Parameter	Type	Description
comparison_operator	String	Condition for comparing a metric statistical value with the threshold. <ul style="list-style-type: none"> • >= - Triggered when the metric statistical value is greater than or equal to the threshold. • > - Triggered when the metric statistical value is greater than the threshold. • = - Triggered when the metric statistical value is equal to the threshold. • <= - Triggered when the metric statistical value is less than or equal to the threshold. • < - Triggered when the metric statistical value is less than the threshold.
interval	Integer	Interval for sending the next notification after the notification is triggered. The default value is once a day.
enable	Boolean	Whether to enable or disable a rule. true : enable; false : disable.
notify_object	String	Notification object; uniform resource name (URN) of an SMN topic.

Status code: 400**Table 4-2585** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 401**Table 4-2586** Response body parameters

Parameter	Type	Description
error_code	String	Error code.

Parameter	Type	Description
error_msg	String	Error message.

Status code: 500

Table 4-2587 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

None

Example Responses

Status code: 200

Succeeded.

```
{
  "count" : 0,
  "items" : [ {
    "rule_id" : "xxxx-xxxx-xxxx",
    "metric_name" : "desktop_idle_duration",
    "threshold" : 30,
    "comparison_operator" : "",
    "interval" : 1,
    "enable" : true,
    "notify_object" : "urn:smn:REGION_ID:XXX-XXX-XXX:topicName"
  } ]
}
```

Status Codes

Status Code	Description
200	Succeeded.
400	Invalid request from the client.
401	Authentication failed.
500	Internal error.

Error Codes

See [Error Codes](#).

4.21.8 Querying Whether There Are Records That Meet the Notification Rule in the Corresponding Metric Dimension

Function

Queries whether there are records that meet the notification rule in the corresponding metric dimension.

The query result indicates only the records that meet the notification rule in the corresponding metric dimension.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/statistics/notification-records

Table 4-2588 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-2589 Query Parameters

Parameter	Mandatory	Type	Description
metric_name	No	String	Metric name (exact match) (metric_name and rule_id cannot be empty at the same time.)
rule_id	No	String	Notification rule ID (metric_name and rule_id cannot be empty at the same time.)
offset	No	Integer	Query offset. The default value is 0 .
limit	No	Integer	The number of records for each query ranges from 1 to 100. The default value is 10 .

Request Parameters

Table 4-2590 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-2591 Response body parameters

Parameter	Type	Description
count	Integer	Total number.
items	Array of DesktopMetricNotifyRecord objects	Notification record.

Table 4-2592 DesktopMetricNotifyRecord

Parameter	Type	Description
match_count	Integer	Number of desktops that meet the notification rule threshold.
metric_name	String	Metric name.
threshold	Integer	Statistical period (days).

Parameter	Type	Description
comparison_operator	String	Condition for comparing a metric statistical value with the threshold. <ul style="list-style-type: none"> • \geq - Triggered when the metric statistical value is greater than or equal to the threshold. • $>$ - Triggered when the metric statistical value is greater than the threshold. • $=$ - Triggered when the metric statistical value is equal to the threshold. • \leq - Triggered when the metric statistical value is less than or equal to the threshold. • $<$ - Triggered when the metric statistical value is less than the threshold.

Status code: 400**Table 4-2593** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 401**Table 4-2594** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 500

Table 4-2595 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

None

Example Responses

Status code: 200

Succeeded.

```
{
  "count" : 0,
  "items" : [ {
    "match_count" : 1,
    "metric_name" : "desktop_state",
    "threshold" : 30,
    "comparison_operator" : ""
  } ]
}
```

Status Codes

Status Code	Description
200	Succeeded.
400	Invalid request from the client.
401	Authentication failed.
500	Internal error.

Error Codes

See [Error Codes](#).

4.21.9 Querying Desktop Usage Statistics

Function

Queries desktop usage statistics.

The cloud service performs aggregation calculation at 02:00 every day to calculate the usage duration from 00:00:00 to 23:59:59 of the previous day, and aggregates data within the period range to the period boundary.

Cross-day records are calculated based on the statistical period.

Assume that you have logged in to the desktop multiple times in a day, for example, 09:00–12:00, 13:00–21:00, and 22:00–01:00 (next day).

The accumulated usage duration of the current day is aggregated to 23:59:59. The total usage duration is 3 hours (09:00–12:00) + 8 hours (13:00–21:00) + 2 hours (22:00–00:00).

Only aggregation calculation data in the last 180 days can be queried.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/statistics/metrics/desktops

Table 4-2596 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-2597 Query Parameters

Parameter	Mandatory	Type	Description
start_time	Yes	String	<p>Query start time (GMT)</p> <p>The cloud service performs aggregation calculation at 02:00 every day to calculate the usage duration from 00:00:00 to 23:59:59 of the previous day, and aggregates data within the period range to the period boundary.</p> <p>Cross-day records are calculated based on the statistical period.</p> <p>Assume that you have logged in to the desktop multiple times in a day, for example, 09:00–12:00, 13:00–21:00, and 22:00–01:00 (next day).</p> <p>The accumulated usage duration of the current day is aggregated to 23:59:59. The total usage duration is 3 hours (09:00–12:00) + 8 hours (13:00–21:00) + 2 hours (22:00–00:00).</p> <p>If the value of from-to is less than one period, the queried data may be empty.</p>
end_time	Yes	String	Query end time (GMT).
resource_name	No	String	Resource name (fuzzy match).
min_idle_days	No	Integer	Minimum number of days when the desktop is idle.
max_idle_days	No	Integer	<p>Maximum number of days when the desktop is idle.</p> <p>If both min_idle_days and max_idle_days are not empty, the value of max_idle_days must be greater than or equal to that of min_idle_days. Otherwise, no data can be queried.</p>
usage_min_hours	No	Integer	Minimum usage duration (in hour).

Parameter	Mandatory	Type	Description
usage_max_h ours	No	Integer	Maximum usage duration (in hour). The value must be greater than or equal to usage_min_hours .
sort_field	No	String	Sorts desktops by metric. <ul style="list-style-type: none"> • <i>desktop_usage</i> - Sorts desktops by desktop usage duration. • <i>desktop_idle_duration</i> - Sorts desktops by idle period.
sort_type	No	String	Direction of sorting by metric. This parameter must be used together with sort_field . <ul style="list-style-type: none"> • <i>DESC</i> - Returns data in descending order. • <i>ASC</i> - Returns data in ascending order.
offset	No	Integer	Query offset. The default value is 0 .
limit	No	Integer	The value of limit ranges from 1 to 100 and defaults to 10 .

Request Parameters

Table 4-2598 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-2599 Response body parameters

Parameter	Type	Description
count	Integer	Total number.
items	Array of DesktopMetric objects	Desktop metric.

Table 4-2600 DesktopMetric

Parameter	Type	Description
resource_id	String	Desktop ID.
resource_pool_id	String	Desktop pool ID. This parameter is available only for desktops in a desktop pool.
resource_name	String	Desktop name.
metric	Array of Metric objects	Statistics <ul style="list-style-type: none"> <i>desktop_usage</i> - Desktop usage duration (unit: second) <i>desktop_idle_duration</i> - Desktop idle duration (unit: second)

Table 4-2601 Metric

Parameter	Type	Description
metric_name	String	Metric name.
metric_value	Double	Metric value.

Status code: 400**Table 4-2602** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 401

Table 4-2603 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 500**Table 4-2604** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

None

Example Responses**Status code: 200**

Succeeded.

```
{
  "count" : 0,
  "items" : [ {
    "resource_id" : "xxx-xxx-xxx",
    "resource_pool_id" : "xxx-xxx-xxx",
    "resource_name" : "xxxx",
    "metric" : [ {
      "metric_name" : "desktop_state",
      "metric_value" : 10
    } ]
  } ]
}
```

Status Codes

Status Code	Description
200	Succeeded.
400	Invalid request from the client.
401	Authentication failed.
500	Internal error.

Error Codes

See [Error Codes](#).

4.21.10 Querying User Usage Statistics

Function

Queries user usage statistics.

Data within a maximum of 30 days can be queried.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/statistics/metrics/users

Table 4-2605 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-2606 Query Parameters

Parameter	Mandatory	Type	Description
start_time	Yes	String	Query start time (GMT).
end_time	Yes	String	Query end time (GMT).
username	No	String	Username (fuzzy match).
usage_min_hours	No	Integer	Minimum usage duration.
usage_max_hours	No	Integer	Maximum usage duration. If both usage_min_hours and usage_max_hours are specified, the value of usage_max_hours must be greater than or equal to that of usage_min_hours .
sort_field	No	String	Sorts desktops by metric. <ul style="list-style-type: none"> <i>user_usage</i> - Sorts desktops by user usage duration.

Parameter	Mandatory	Type	Description
sort_type	No	String	Direction of sorting by metric. This parameter must be used together with sort_field . <ul style="list-style-type: none"> • <i>DESC</i> - Returns data in descending order. • <i>ASC</i> - Returns data in ascending order.
offset	No	Integer	Query offset. The default value is 0 .
limit	No	Integer	The value of limit ranges from 1 to 100 and defaults to 10 .

Request Parameters

Table 4-2607 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-2608 Response body parameters

Parameter	Type	Description
count	Integer	Total number.
items	Array of UserMetric objects	User metric.

Table 4-2609 UserMetric

Parameter	Type	Description
username	String	Username.
metric	Array of Metric objects	Desktop usage statistics <ul style="list-style-type: none"> • <i>user_usage</i> - User usage duration (unit: second). If multiple PCs are logged in to at the same time, the usage duration is accumulated. • <i>user_login_count</i> - Number of user logins • <i>user_login_success_count</i> - Number of successful user logins • <i>user_login_fail_count</i> - Number of failed user logins

Table 4-2610 Metric

Parameter	Type	Description
metric_name	String	Metric name.
metric_value	Double	Metric value.

Status code: 400**Table 4-2611** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 401**Table 4-2612** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 500

Table 4-2613 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

None

Example Responses

Status code: 200

Succeeded.

```
{
  "count" : 0,
  "items" : [ {
    "username" : "xxxx",
    "metric" : [ {
      "metric_name" : "desktop_state",
      "metric_value" : 10
    } ]
  } ]
}
```

Status Codes

Status Code	Description
200	Succeeded.
400	Invalid request from the client.
401	Authentication failed.
500	Internal error.

Error Codes

See [Error Codes](#).

4.21.11 Querying Access Statistics of Application Streaming

Function

Query statistics about Application Streaming access. You can query data of a maximum of 30 days at a time, and data of the past 30 days.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/statistics/metrics/app-user-access

Table 4-2614 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-2615 Query Parameters

Parameter	Mandatory	Type	Description
start_time	Yes	String	Query start time (UTC), for example, 2022-05-11T11:45:42Z. "
end_time	Yes	String	Query end time (UTC), for example, 2022-05-11T11:45:42Z. "
username	No	String	Username (fuzzy match).
sort_field	No	String	Sorting by metric. access_failed_count : by the number of access failures last_access_failed_time : by the latest access failure time
sort_type	No	String	Direction of sorting by metric. This parameter must be used together with sort_field . DESC : Returns data in descending order. ASC : Returns data in ascending order.
offset	No	Integer	Query offset. The default value is 0 .
limit	No	Integer	The value of limit ranges from 1 to 100 and defaults to 10 .

Request Parameters

Table 4-2616 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-2617 Response body parameters

Parameter	Type	Description
count	Integer	Total number.
items	Array of AppUserAccessData objects	User metric.

Table 4-2618 AppUserAccessData

Parameter	Type	Description
username	String	Username.
access_failed_count	Integer	Number of access failures.
last_access_failed_time	String	Time when the last access fails. The value is in UTC format, for example, 2022-05-11T11:45:42Z.
error_code	String	Error code.
error_msg	String	Error message.

Status code: 400

Table 4-2619 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 401**Table 4-2620** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 500**Table 4-2621** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

None

Example Responses**Status code: 200**

Succeeded.

```
{
  "count" : 0,
  "items" : [{
    "username" : "xxxx",
    "access_failed_count" : 3,
    "last_access_failed_time" : "2022-05-11T11:45:42Z",
    "error_code" : "WKS.xxx",
    "error_msg" : "login failed."
  }]
}
```

Status Codes

Status Code	Description
200	Succeeded.
400	Invalid request from the client.
401	Authentication failed.
500	Internal error.

Error Codes

See [Error Codes](#).

4.21.12 Querying Duration Data of Each Phase of Workspace or Application Streaming

Function

Queries duration data of each phase of Workspace or Application Streaming.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/statistics/metrics/access-stages

Table 4-2622 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-2623 Query Parameters

Parameter	Mandatory	Type	Description
transaction_id	Yes	String	Transaction ID.

Request Parameters

Table 4-2624 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-2625 Response body parameters

Parameter	Type	Description
username	String	Username.
biz_type	String	Access phase. The options are APP (application) and DESKTOP (desktop).
stages	Array of UserAccessStage objects	Details about each access phase.

Table 4-2626 UserAccessStage

Parameter	Type	Description
stage	String	Access phase. The options are LOGIN (login), PRECONNECT (pre-connection), and CONNECT (connection).
duration	Integer	Time consumed, in millisecond.
is_success	Boolean	Whether the access phase is successful.
start_time	Long	Start timestamp.
end_time	Long	End timestamp.
error_code	String	Error code.
error_msg	String	Error message.

Status code: 400**Table 4-2627** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 401**Table 4-2628** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 500**Table 4-2629** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

None

Example Responses**Status code: 200**

Succeeded.

```
{
  "username": "user001",
  "biz_type": "APP",
  "stages": [ {
    "stage": "LOGIN",
    "duration": 500,
    "is_success": true,
    "start_time": 1724328355052,
    "end_time": 1724328355052,
    "error_code": "WKS.00000000",
    "error_msg": "OK"
  } ]
}
```

Status Codes

Status Code	Description
200	Succeeded.
400	Invalid request from the client.
401	Authentication failed.
500	Internal error.

Error Codes

See [Error Codes](#).

4.21.13 Desktop Statistics

Function

Statistics on the statuses of general desktops and desktop pools of a tenant. By default, only the total number is collected.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/statistics

Table 4-2630 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-2631 Query Parameters

Parameter	Mandatory	Type	Description
desktop_type	No	Array of strings	Desktop type. If this parameter is left empty, all desktops are queried. <ul style="list-style-type: none"> • DEDICATED: common desktops, including exclusive desktops and dedicated desktops. • POOLED: pooled desktop, that is, desktop in a desktop pool.
statistics_type	No	Array of strings	Statistics type. If this parameter is left empty, only the total number of desktops is collected. - - attach-state : statistics by assignment status; login-state : statistics by login status; run-state : statistics by running status

Request Parameters

Table 4-2632 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-2633 Response body parameters

Parameter	Type	Description
total_num	Integer	Total number of desktops.
attach_statistics	AttachStatistics object	Assignment statistics.

Parameter	Type	Description
run_state_statistics	DesktopRunStatisticsRsp object	Operating statistics.
login_state_statistics	DesktopLoginStatisticsRsp object	Login statistics.
desktop_pool_statistics	Array of DesktopPoolStatistics objects	Statistics of each desktop pool. There is a response when desktop_type is set to POOL .

Table 4-2634 DesktopPoolStatistics

Parameter	Type	Description
desktop_pool_id	String	Desktop pool ID.
desktop_pool_name	String	Desktop pool name.
total_num	Integer	Total number of desktops.
attach_statistics	AttachStatistics object	Assignment statistics.
run_state_statistics	DesktopRunStatisticsRsp object	Operating statistics.
login_state_statistics	DesktopLoginStatisticsRsp object	Login statistics.

Table 4-2635 AttachStatistics

Parameter	Type	Description
attached_num	Integer	Number of assigned desktops.
unattached_num	Integer	Number of unassigned desktops.
attaching_num	Integer	Number of desktops being assigned.
attach_error_num	Integer	Number of desktops that fail to be assigned.

Table 4-2636 DesktopRunStatisticsRsp

Parameter	Type	Description
stop_num	Integer	Number of stopped desktops.

Parameter	Type	Description
active_num	Integer	Number of running desktops.
error_num	Integer	Number of faulty desktops.
hibernated_num	Integer	Number of hibernated desktops.

Table 4-2637 DesktopLoginStatisticsRsp

Parameter	Type	Description
in_use_num	Integer	Number of desktops in use.
unregistered_num	Integer	Number of unregistered desktops.
unable_to_connect_num	Integer	Number of unregistered desktops.
ready_num	Integer	Number of idle desktops.
disconnected_num	Integer	Number of disconnected desktops.

Status code: default

Table 4-2638 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

None

Example Responses

Status code: 200

Status statistics response.


```
{
  "total_num" : 1
}
```

Status Codes

Status Code	Description
200	Status statistics response.
default	Error response.

Error Codes

See [Error Codes](#).

4.21.14 Running Status Statistics

Function

Statistics on the running statuses of tenant desktops.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/desktops/statistics/run-state

Table 4-2639 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-2640 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	No	String	MIME type of the request body.

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-2641 Response body parameters

Parameter	Type	Description
stop_num	Integer	Number of stopped desktops.
active_num	Integer	Number of running desktops.
error_num	Integer	Number of faulty desktops.
hibernated_num	Integer	Number of hibernated desktops.

Status code: default

Table 4-2642 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

None

Example Responses

Status code: 200

Response to the request for collecting statistics on the running statuses of desktops.

```
{
  "stop_num" : 0,
  "active_num" : 5,
  "error_num" : 0,
  "hibernated_num" : 0
}
```

Status Codes

Status Code	Description
200	Response to the request for collecting statistics on the running statuses of desktops.
default	Error response.

Error Codes

See [Error Codes](#).

4.21.15 Login Status Statistics

Function

Statistics on the login statuses of tenant desktops.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/desktops/statistics/login-state

Table 4-2643 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-2644 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	No	String	MIME type of the request body.
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-2645 Response body parameters

Parameter	Type	Description
in_use_num	Integer	Number of desktops in use.
unregistered_num	Integer	Number of unregistered desktops.
unable_to_connect_num	Integer	Number of unregistered desktops.
ready_num	Integer	Number of idle desktops.
disconnected_num	Integer	Number of disconnected desktops.

Status code: default

Table 4-2646 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.

Parameter	Type	Description
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

None

Example Responses

Status code: 200

Response to the request for collecting statistics on the login statuses of desktops.

```
{
  "in_use_num" : 0,
  "unregistered_num" : 0,
  "unable_to_connect_num" : 0,
  "ready_num" : 0,
  "disconnected_num" : 0
}
```

Status Codes

Status Code	Description
200	Response to the request for collecting statistics on the login statuses of desktops.
default	Error response.

Error Codes

See [Error Codes](#).

4.21.16 Querying Desktops That Are Not Used in a Specified Period

Function

Queries desktops that are idle in a specified period. This API has been discarded and is not recommended. You are advised to use the APIs for [querying desktop usage statistics](#) and [querying user usage statistics](#).

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/desktops/statistics/unused

Table 4-2647 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-2648 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Start position of the data record to be returned. This parameter is used for pagination query. The value ranges from 0 to 2000. The default value is 0 .
limit	No	Integer	Number of information items to be returned in the query result. This parameter is used for pagination query. The value ranges from 0 to 2000. The default value is 1000 .
start_time	No	String	Start time: The value consists of a date and time in UTC format. The format is yyyy-MM-ddTHH:mm:ss.SSSZ. If this parameter is not specified, unused desktops from the current day to the previous day are queried.
end_time	No	String	End time: The value consists of a date and time in UTC format. The format is yyyy-MM-ddTHH:mm:ss.SSSZ. If this parameter is not specified, unused desktops from the current day to the previous day are queried.

Request Parameters

Table 4-2649 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	No	String	MIME type of the request body.
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-2650 Response body parameters

Parameter	Type	Description
unused_desktops	Array of UnusedDesktopInfo objects	Desktops that are not used in a specified period.
total_count	Integer	Total number.

Table 4-2651 UnusedDesktopInfo

Parameter	Type	Description
desktop_id	String	Desktop ID.
compute_name	String	Desktop name.
create_time	String	Time when a desktop is created.
disconnect_time	String	Last disconnection time.

Status code: default

Table 4-2652 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
/v2/13d4944fcfc7448893f50d81a6a2edd3/desktops/statistics/unused
```

Example Responses

Status code: 200

Response to the request for querying desktops that are not used in a specified period.

```
{
  "unused_desktops" : [ {
    "desktop_id" : "e0367f84-1d64-498e-9b92-093002ac3ce8",
    "compute_name" : "ZYZ08",
    "create_time" : "2022-08-08T02:34:05.202Z",
    "disconnect_time" : "2022-08-08T02:39:00.000Z"
  }, {
    "desktop_id" : "b8eb2ac0-4540-4409-857f-df5e2de07546",
    "compute_name" : "wangyan8301",
    "create_time" : "2022-08-08T02:34:05.202Z",
    "disconnect_time" : "2022-08-08T02:39:00.000Z"
  } ],
  "total_count" : 2
}
```

Status Codes

Status Code	Description
200	Response to the request for querying desktops that are not used in a specified period.
default	Error response.

Error Codes

See [Error Codes](#).

4.21.17 Querying the Desktop Usage Duration

Function

Queries desktop usage duration. This API has been discarded and is not recommended. You are advised to use the APIs for [querying desktop usage statistics](#) and [querying user usage statistics](#).

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2/{project_id}/desktops/statistics/used

Table 4-2653 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-2654 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	No	String	MIME type of the request body.
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 4-2655 Request body parameters

Parameter	Mandatory	Type	Description
desktop_ids	No	Array of strings	Desktop ID set.

Parameter	Mandatory	Type	Description
start_time	No	String	Start time. The format is yyyy-MM-dd (UTC time). If this parameter is not specified, data of the latest 15 days is queried by default. Data of a maximum of 31 days can be queried.
end_time	No	String	End time. The format is yyyy-MM-dd (UTC time). If this parameter is not specified, data of the latest 15 days is queried by default. Data of a maximum of 31 days can be queried.
group_by_type	No	String	Statistics collection mode. If this parameter is not transferred, the default value is day. Options: <ul style="list-style-type: none"> • DAY: by day. • HOUR: by hour.
desktop_username	No	String	If the username of the desktop is specified, only the usage time of the user is queried.
offset	No	Integer	Sequence number of the first data record to be returned. This parameter is used for pagination query. The value ranges from 0 (default) to 2147483647.
limit	No	Integer	Number of information items to be returned in the query result. This parameter is used for pagination query. The value ranges from 0 to 100. The default value is 100 .

Response Parameters

Status code: 200

Table 4-2656 Response body parameters

Parameter	Type	Description
desktop_used_info_list	Array of DesktopUsedHoursInfo objects	Desktop usage information (divided by desktop ID).
total_count	Integer	Total number.

Table 4-2657 DesktopUsedHoursInfo

Parameter	Type	Description
desktop_id	String	Desktop ID.
desktop_username	String	User.
used_info_list	Array of DesktopUsedInfo objects	List of desktop usage time.

Table 4-2658 DesktopUsedInfo

Parameter	Type	Description
date	String	Date. The format is yyyy-MM-dd (UTC time).
use_time	String	Total online duration, in hours. The value is accurate to two decimal places, for example, 1.32.

Status code: default**Table 4-2659** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.

Parameter	Type	Description
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
{
  "desktop_ids": [ "c6e6dbd7-c950-471d-a6a7-01d0fb62f450", "d5367f84-1d64-498e-9b92-093002ac6ce9" ],
  "start_time": "2022-12-09",
  "end_time": "2022-12-15"
}
```

Example Responses

Status code: 200

Response to the request for querying the desktop usage duration.

```
{
  "desktop_used_info_list": [ {
    "desktop_id": "c6e6dbd7-c950-471d-a6a7-01d0fb62f450",
    "used_info_list": [ {
      "date": "2022-12-09",
      "use_time": 12.62
    }, {
      "date": "2022-12-10",
      "use_time": 2.62
    }, {
      "date": "2022-12-11",
      "use_time": 1.02
    }, {
      "date": "2022-12-12",
      "use_time": 0
    }, {
      "date": "2022-12-13",
      "use_time": 0
    }, {
      "date": "2022-12-14",
      "use_time": 3.87
    }, {
      "date": "2022-12-15",
      "use_time": 3.56
    }
  ]
}, {
  "desktop_id": "d5367f84-1d64-498e-9b92-093002ac6ce9",
  "used_info_list": [ {
    "date": "2022-12-09",
    "use_time": 10.56
  }, {
    "date": "2022-12-10",
    "use_time": 1.38
  }, {
    "date": "2022-12-11",
    "use_time": 0
  }, {
    "date": "2022-12-12",
    "use_time": 0
  }, {
    "date": "2022-12-13",
    "use_time": 0
  }, {

```

```

    "date" : "2022-12-14",
    "use_time" : 3.87
  }, {
    "date" : "2022-12-15",
    "use_time" : 3.56
  }
  ],
  "total_count" : 2
}

```

Status Codes

Status Code	Description
200	Response to the request for querying the desktop usage duration.
default	Error response.

Error Codes

See [Error Codes](#).

4.22 Alarm

4.22.1 Querying Alarms

Function

Queries alarms from Cloud Eye.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/alarms

Table 4-2660 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-2661 Query Parameters

Parameter	Mandatory	Type	Description
level	No	Integer	Alarm severity. The value can be 1 (critical), 2 (major), 3 (minor), or 4 (warning).
offset	No	Integer	Page offset.
limit	No	Integer	Number of records displayed on each page. The default value is 100 .

Request Parameters

Table 4-2662 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-2663 Response body parameters

Parameter	Type	Description
alarm_histories	Array of AlarmHistoryItem objects	Alarm records.
count	Integer	Total number of alarm records.

Table 4-2664 AlarmHistoryItem

Parameter	Type	Description
record_id	String	Alarm record.
alarm_id	String	Alarm rule ID.

Parameter	Type	Description
name	String	Alarm rule name.
status	String	Status of the alarm record. The value can be ok , alarm , or invalid .
type	String	Alarm rule type. ALL_INSTANCE indicates alarm rules for metrics of all resources. RESOURCE_GROUP indicates alarm rules for metrics of resources in a resource group. MULTI_INSTANCE indicates alarm rules for metrics of specified resources. EVENT.SYS indicates alarm rules for system events. EVENT.CUSTOM indicates alarm rules for custom events. DNSHealthCheck indicates alarm rules for health checks.
level	Integer	Severity of the alarm record. The value can be 1 (critical), 2 (major), 3 (minor), or 4 (warning).
begin_time	String	Generation time (UTC).
metric	AlarmMetric object	Alarm metric information.
condition	AlarmCondition object	Alarm triggering condition.
additional_info	AdditionalInfo object	Additional field of an alarm record, which applies only to alarm records generated in event monitoring scenarios.
data_points	Array of DataPointInfo objects	Time when the resource monitoring data is reported and the monitoring data in the alarm record.

Table 4-2665 AlarmMetric

Parameter	Type	Description
namespace	String	Namespace of the service to be queried.
metric_name	String	Metric name of the resource.
dimensions	Array of AlarmMetricDimension objects	Metric dimension. A maximum of four dimensions can be added.

Table 4-2666 AlarmMetricDimension

Parameter	Type	Description
name	String	Resource dimension.
value	String	Resource dimension value.

Table 4-2667 AlarmCondition

Parameter	Type	Description
period	Integer	Monitoring period of a metric, in second. The default value is 0 . For an event alarm, set this parameter to 0 . 1 indicates the original period of a metric. For example, if the original period of an RDS metric is 60 seconds, the interval between its data points is 60 seconds.
filter	String	Rollup method. The value can be average , min , max , or sum .
comparison_operator	String	Threshold symbol. The value can be > , < , >= , <= , = , != , cycle_decrease , cycle_increase , or cycle_wave . cycle_decrease indicates the decrease compared with the last period; cycle_increase indicates the increase compared with the last period; cycle_wave indicates the increase or decrease compared with the last period.
value	Double	Alarm threshold.
unit	String	Data unit, which cannot exceed 32 characters.
count	Integer	Times.
suppress_duration	Integer	Alarm suppression time, in second. This parameter corresponds to the last field in the alarm policy when an alarm rule is created on the Cloud Eye console. This field is used to avoid frequent alarms. 0 indicates that the alarm is not suppressed and alarms are generated as long as the conditions are met. 300 indicates that an alarm is generated every 5 minutes as long as the alarm triggering conditions are met.

Table 4-2668 AdditionalInfo

Parameter	Type	Description
resource_id	String	ID of the resource corresponding to the alarm record.
resource_name	String	Name of the resource corresponding to the alarm record.
event_id	String	Event monitoring ID corresponding to the alarm record, which is the event generated by the resource.

Table 4-2669 DataPointInfo

Parameter	Type	Description
time	String	UTC time when the resource monitoring data of the alarm record is reported.
value	Double	Resource monitoring data of the alarm record at the time point.

Status code: 400**Table 4-2670** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 401**Table 4-2671** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 500

Table 4-2672 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

None

Example Responses

Status code: 200

Succeeded.

```
{
  "alarm_histories": [ {
    "record_id": "string",
    "alarm_id": "al1603131199286dzxpqK3Ez",
    "name": "alarm-test01",
    "status": "alarm",
    "type": "EVENT.SYS",
    "level": 1,
    "begin_time": 231025,
    "metric": {
      "namespace": "SYS.IES",
      "metric_name": "cpu_util",
      "dimensions": [ {
        "name": "instance_id",
        "value": "4270ff17-aba3-4138-89fa-820594c39755"
      } ]
    }
  } ],
  "condition": {
    "period": 1,
    "filter": "average",
    "comparison_operator": "",
    "value": 0,
    "unit": "percent",
    "count": 10,
    "suppress_duration": 300
  },
  "additional_info": {
    "resource_id": "22d98f6c-16d2-4c2d-b424-50e79d82838f",
    "resource_name": "ECS-Test01",
    "event_id": "ev16031292300990kKN8p17J"
  },
  "data_points": [ {
    "time": "string",
    "value": 7.019
  } ]
},
"count": 0
}
```

Status Codes

Status Code	Description
200	Succeeded.
400	Invalid request from the client.
401	Authentication failed.
500	Internal error.

Error Codes

See [Error Codes](#).

4.22.2 Querying Alarm Statistics

Function

Number of alarms at each severity.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/statistics/alarms

Table 4-2673 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-2674 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-2675 Response body parameters

Parameter	Type	Description
critical_count	Integer	Total number of critical alarm records.
major_count	Integer	Total number of major alarm records.
minor_count	Integer	Total number of minor alarm records.
info_count	Integer	Total number of warning alarm records.
total	Integer	Total number of alarm records.

Status code: 400

Table 4-2676 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 401

Table 4-2677 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 500

Table 4-2678 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

None

Example Responses

Status code: 200

Succeeded.

```
{
  "critical_count" : 100,
  "major_count" : 100,
  "minor_count" : 100,
  "info_count" : 100,
  "total" : 100
}
```

Status Codes

Status Code	Description
200	Succeeded.
400	Invalid request from the client.
401	Authentication failed.
500	Internal error.

Error Codes

See [Error Codes](#).

4.23 User Operation Log

4.23.1 Querying User Events

Function

Queries user events. You can query data of a maximum of 30 days at a time, and data of the past 30 days.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/user-events

Table 4-2679 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-2680 Query Parameters

Parameter	Mandatory	Type	Description
start_time	Yes	String	Start time of the query. The value is in UTC format, for example, 1970-01-01T00:00:00Z.
end_time	Yes	String	End time of the query. The value is in UTC format, for example, 1970-01-01T00:00:00Z.
username	No	String	Username (exact search).
event_type	No	String	Event type. Use commas (,) to separate multiple event types.
resource_id	No	String	ID of the resource to be operated.
resource_name	No	String	Name of the resource to be operated.

Parameter	Mandatory	Type	Description
offset	No	Integer	Where the pagination query starts. The value starts from 0 .
limit	No	Integer	Number of returned user events for pagination query. The value ranges from 0 to 1,000. If this parameter is not specified, the default value 100 is used.

Request Parameters

Table 4-2681 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-2682 Response body parameters

Parameter	Type	Description
count	Integer	Total number of events.
items	Array of UserEventRsp objects	User events.

Table 4-2683 UserEventRsp

Parameter	Type	Description
project_id	String	Project ID.
username	String	Username.
workspace_id	String	Enterprise ID.

Parameter	Type	Description
event_trace_id	String	ID of the association between events.
event_type	String	Event type.
event_time	String	Event time. The value is in UTC format, for example, 1970-01-01T00:00:00Z.
resource_type	String	Operation object type.
resource_id	String	Operation object ID.
resource_name	String	Operation object name.
client_type	String	Client type.
client_ip	String	Client IP address.
client_mac	String	Client MAC address.
client_version	String	Client version.
source_ip	String	Source IP address of the operation user.
is_success	Boolean	Whether the request is successful.
error_code	String	Error code.
error_msg	String	Error message.
action_type	String	Trigger type. The value can be USER (triggered by a user) or SYSTEM (triggered by the system).

Status code: 400**Table 4-2684** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 401**Table 4-2685** Response body parameters

Parameter	Type	Description
error_code	String	Error code.

Parameter	Type	Description
error_msg	String	Error message.

Status code: 500

Table 4-2686 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

None

Example Responses

Status code: 200

Succeeded.

```
{
  "count" : 0,
  "items" : [{
    "project_id" : "xxx",
    "username" : "xxx",
    "workspace_id" : "xxx",
    "event_trace_id" : "407481bd-65b4-4de4-a553-67d858cbe29b",
    "event_type" : "loginByPassword",
    "event_time" : "1970-01-01T00:00:00Z",
    "resource_type" : "USER",
    "resource_id" : "407481bd-65b4-4de4-a553-67d858cbe29b",
    "resource_name" : "DESKTOP-01",
    "client_type" : "WINDOWS",
    "client_ip" : "127.0.0.1",
    "client_mac" : "xx.xx.xx.xx",
    "source_ip" : "127.0.0.1",
    "is_success" : true,
    "error_code" : "WKS.00000000",
    "error_msg" : "OK"
  }]
}
```

Status Codes

Status Code	Description
200	Succeeded.
400	Invalid request from the client.

Status Code	Description
401	Authentication failed.
500	Internal error

Error Codes

See [Error Codes](#).

4.23.2 Querying the LTS Configuration of User Events

Function

Queries the LTS configuration of user events.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/user-events/lts-configurations

Table 4-2687 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-2688 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-2689 Response body parameters

Parameter	Type	Description
enable	Boolean	Whether to enable LTS log streams.
log_group_id	String	Log group ID.
log_stream_id	String	Log stream ID.

Status code: 400

Table 4-2690 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 401

Table 4-2691 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 500

Table 4-2692 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

None

Example Responses

Status code: 200

Succeeded.

```
{
  "enable" : true,
  "log_group_id" : "e56e2131-8fa5-42dc-8f26-17b18fd3ec9e",
  "log_stream_id" : "049a351d-5164-4bb2-af41-b7e3f3437c80"
}
```

Status Codes

Status Code	Description
200	Succeeded.
400	Invalid request from the client.
401	Authentication failed.
500	Internal error.

Error Codes

See [Error Codes](#).

4.23.3 Configuring LTS for User Events

Function

Configures LTS for user events.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2/{project_id}/user-events/lts-configurations

Table 4-2693 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-2694 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 4-2695 Request body parameters

Parameter	Mandatory	Type	Description
enable	Yes	Boolean	Whether to enable LTS log streams.
log_group_id	No	String	Log group ID.
log_stream_id	No	String	Log stream ID.

Response Parameters

Status code: 200

Succeeded.

Status code: 400

Table 4-2696 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 401

Table 4-2697 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Status code: 500

Table 4-2698 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

```
{
  "enable": true,
  "log_group_id": "e56e2131-8fa5-42dc-8f26-17b18fd3ec9e",
  "log_stream_id": "049a351d-5164-4bb2-af41-b7e3f3437c80"
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Succeeded.
400	Invalid request from the client.
401	Authentication failed.
500	Internal error.

Error Codes

See [Error Codes](#).

4.24 Script

4.24.1 Adding a Script

Function

Adds a script.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2/{project_id}/scripts

Table 4-2699 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-2700 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 4-2701 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Script name.
type	Yes	String	Script type: POWERSHELL , BAT , or SHELL .
description	No	String	Description.
content	Yes	String	Script content.
version	No	String	Script version.

Response Parameters

Status code: 200

Table 4-2702 Response body parameters

Parameter	Type	Description
script_id	String	Script ID.

Status code: 400**Table 4-2703** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 401**Table 4-2704** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 403**Table 4-2705** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 404**Table 4-2706** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.

Parameter	Type	Description
error_msg	String	Error message.

Status code: 405**Table 4-2707** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 500**Table 4-2708** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 503**Table 4-2709** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Example Requests

```
{
  "name" : "Script01",
  "type" : "string",
  "description" : "xxx",
  "content" : "string",
  "version" : "string"
}
```

Example Responses

Status code: 200

Response to a successful request.

```
{
  "script_id" : "xxx122"
}
```

Status Codes

Status Code	Description
200	Response to a successful request.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.24.2 Querying Scripts

Function

Queries scripts.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/scripts

Table 4-2710 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-2711 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Query offset. The default value is 0 .
limit	No	Integer	The number of records for each query ranges from 1 to 100. The default value is 10 .
id	No	String	Script ID.
name	No	String	Script name.
type	No	String	Script type.

Request Parameters

Table 4-2712 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-2713 Response body parameters

Parameter	Type	Description
count	Integer	Total number.
scripts	Array of ScriptSimpleInfo objects	Scripts.

Table 4-2714 ScriptSimpleInfo

Parameter	Type	Description
id	String	Script ID.
name	String	Script name.
description	String	Description.
type	String	Script type: POWERSHELL, BAT, or SHELL.
version	String	Script version.
create_time	DateTime	Creation time.
update_time	DateTime	Update time.

Status code: 400**Table 4-2715** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 401**Table 4-2716** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 403**Table 4-2717** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.

Parameter	Type	Description
error_msg	String	Error message.

Status code: 404**Table 4-2718** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 405**Table 4-2719** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 500**Table 4-2720** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 503**Table 4-2721** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.

Parameter	Type	Description
error_msg	String	Error message.

Example Requests

None

Example Responses

Status code: 200

Response to a successful request.

```
{
  "count" : 0,
  "scripts" : [ {
    "id" : "string",
    "name" : "string",
    "description" : "string",
    "type" : "string",
    "version" : "string",
    "create_time" : "2024-12-25T07:09:33.224Z",
    "update_time" : "2024-12-25T07:09:33.224Z"
  } ]
}
```

Status Codes

Status Code	Description
200	Response to a successful request.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.24.3 Querying Script Details

Function

Queries script details.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/scripts/{script_id}

Table 4-2722 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
script_id	Yes	String	Script ID.

Table 4-2723 Query Parameters

Parameter	Mandatory	Type	Description
script_task_id	No	String	Script execution task ID.

Request Parameters

Table 4-2724 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-2725 Response body parameters

Parameter	Type	Description
id	String	Script ID.
name	String	Script name.
description	String	Description.
type	String	Script type: POWERSHELL, BAT, or SHELL.
version	String	Script version.
create_time	DateTime	Creation time.
update_time	DateTime	Update time.
content	String	Script content.

Status code: 400**Table 4-2726** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 401**Table 4-2727** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 403

Table 4-2728 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 404**Table 4-2729** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 405**Table 4-2730** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 500**Table 4-2731** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 503

Table 4-2732 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Example Requests

None

Example Responses

Status code: 200

Response to a successful request.

```
{
  "id" : "21616aa6-061d-4b2f-bd83-b230d7a9a14c",
  "name" : "script01",
  "description" : "script01",
  "type" : "bat",
  "version" : "version",
  "create_time" : "2022-03-07T10:40:43.858Z",
  "update_time" : "2022-03-07T10:40:43.858Z"
}
```

Status Codes

Status Code	Description
200	Response to a successful request.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.24.4 Updating a Script

Function

Updates a script.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT /v2/{project_id}/scripts/{script_id}

Table 4-2733 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
script_id	Yes	String	Script ID.

Request Parameters

Table 4-2734 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 4-2735 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Script name.
description	No	String	Description.
content	Yes	String	Script content.
version	No	String	Script version.

Response Parameters

Status code: 204

Response to a successful request.

Status code: 400

Table 4-2736 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 401

Table 4-2737 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 403

Table 4-2738 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 404

Table 4-2739 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 405**Table 4-2740** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 500**Table 4-2741** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 503**Table 4-2742** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Example Requests

```
{
  "name" : "Script01",
  "description" : "xxx",
  "content" : "string",
  "version" : "string"
}
```

Example Responses

None

Status Codes

Status Code	Description
204	Response to a successful request.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.24.5 Deleting a Script

Function

Deletes a script.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

DELETE /v2/{project_id}/scripts/{script_id}

Table 4-2743 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
script_id	Yes	String	Script ID.

Request Parameters

Table 4-2744 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 204

Response to a successful request.

Status code: 400

Table 4-2745 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 401

Table 4-2746 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 403

Table 4-2747 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 404**Table 4-2748** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 405**Table 4-2749** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 500**Table 4-2750** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 503

Table 4-2751 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
204	Response to a successful request.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.24.6 Executing Scripts or Commands in Batches

Function

Executes scripts or commands in batches.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2/{project_id}/script-executions

Table 4-2752 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-2753 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 4-2754 Request body parameters

Parameter	Mandatory	Type	Description
gray_count	No	Integer	Number of gray resources.
resource_type	No	String	Resource type, for example, DESKTOP .
gray_resource_ids	No	Array of strings	Resources for gray script execution.
gray_fail_threshold	No	Integer	Gray failure threshold. When the threshold is reached, the system stops executing the next batch of scripts. The value is less than the value of gray_count .
resource_ids	No	Array of strings	Resources for script execution.

Parameter	Mandatory	Type	Description
script_ids	No	Array of strings	Executed scripts.
execution_timeout	No	Integer	Timeout interval for executing a script, in minute.

Response Parameters

Status code: 200

Table 4-2755 Response body parameters

Parameter	Type	Description
task_id	String	Script execution task ID.

Status code: 400

Table 4-2756 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 401

Table 4-2757 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 403

Table 4-2758 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 404**Table 4-2759** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 405**Table 4-2760** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 500**Table 4-2761** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 503

Table 4-2762 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Example Requests

```
{
  "resource_type": "desktop",
  "resource_ids": [{
    "resource_id": "0000000059071dbc01591661d3990019"
  }],
  "script_ids": [{
    "script_id": "0000000059071dbc01591661d3990019"
  }]
}
```

Example Responses

Status code: 200

Response to the request for executing scripts in batches.

```
{
  "task_id": "0000000059071dbc01591661d3990019"
}
```

Status Codes

Status Code	Description
200	Response to the request for executing scripts in batches.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.24.7 Querying Script Execution Record Details

Function

Queries script execution record details.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/script-execution-records/{record_id}

Table 4-2763 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
record_id	Yes	String	Script execution record ID.

Request Parameters

Table 4-2764 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-2765 Response body parameters

Parameter	Type	Description
id	String	Script execution record ID.
script_id	String	Script ID.
script_name	String	Script name.

Parameter	Type	Description
script_task_id	String	Script execution task ID.
resource_id	String	Resource ID for script execution, for example, desktop ID.
resource_name	String	Resource name for script execution, for example, desktop name.
resource_type	String	Resource type, for example, DESKTOP .
start_time	DateTime	Start time of script execution.
end_time	DateTime	End time of script execution.
status	String	Script execution status.
execute_order	Integer	Execution batch (0 : default value; 1 : gray; 2 : non-gray).
result_code	String	Error code.
reason	String	Cause.
output	String	Script execution output.

Status code: 400**Table 4-2766** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 401**Table 4-2767** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 403

Table 4-2768 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 404**Table 4-2769** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 405**Table 4-2770** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 500**Table 4-2771** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 503

Table 4-2772 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Example Requests

None

Example Responses

Status code: 200

Response to a successful request.

```
{
  "id" : "sawafaw12414214awfa",
  "script_id" : "string",
  "script_name" : "string",
  "script_task_id" : "string",
  "resource_id" : "string",
  "resource_name" : "string",
  "resource_type" : "string",
  "start_time" : "2024-12-25T07:10:36.054Z",
  "end_time" : "2024-12-25T07:10:36.054Z",
  "status" : "string",
  "execute_order" : 0,
  "result_code" : "string",
  "reason" : "string",
  "output" : "string"
}
```

Status Codes

Status Code	Description
200	Response to a successful request.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.24.8 Querying Script Execution Records

Function

Queries script execution records.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/script-execution-records

Table 4-2773 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-2774 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Query offset. The default value is 0 .
limit	No	Integer	The number of records for each query ranges from 1 to 100. The default value is 10 .
resource_id	No	Array of strings	Resource IDs of script execution.
resource_group_id	No	Array of strings	Resource group ID of script execution.
script_id	No	Array of strings	ID of the executed script.
script_name	No	Array of strings	Name of the executed script.
status	No	String	Script execution status.
is_first_order	No	Boolean	Whether it is the first-batch execution.

Parameter	Mandatory	Type	Description
script_task_id	No	String	Script execution task ID.
task_type	No	String	Task type of the execution record (SCRIPT or COMMAND).
show_history	No	Boolean	Whether to query historical records. The default value is false . If the value is true , both resource_id and script_id must be transferred.
execute_time_start	No	String	Start time of the query by execution time. If this parameter is specified, all execution records after this time are returned. A time example is 2021-10-01T12:00:00Z.
execute_time_end	No	String	End time of the query by execution time. If this parameter is specified, all execution records before this time are returned. A time example is 2021-10-01T12:00:00Z.

Request Parameters

Table 4-2775 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-2776 Response body parameters

Parameter	Type	Description
count	Integer	Total number.
script_records	Array of ScriptRecordSimpleInfo objects	Script execution records.

Table 4-2777 ScriptRecordSimpleInfo

Parameter	Type	Description
id	String	Script execution record ID.
script_id	String	Script ID.
script_name	String	Script name.
script_task_id	String	Script execution task ID.
resource_id	String	Resource ID for script execution, for example, desktop ID.
resource_name	String	Resource name for script execution, for example, desktop name.
resource_type	String	Resource type, for example, DESKTOP .
start_time	DateTime	Start time of script execution.
end_time	DateTime	End time of script execution.
status	String	Script execution status.
execute_order	Integer	Execution batch (0 : default value; 1 : gray; 2 : non-gray).
result_code	String	Error code.
reason	String	Cause.

Status code: 400**Table 4-2778** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 401**Table 4-2779** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 403**Table 4-2780** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 404**Table 4-2781** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 405**Table 4-2782** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 500

Table 4-2783 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 503**Table 4-2784** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Example Requests

None

Example Responses**Status code: 200**

Response to a successful request.

```
{
  "count" : 0,
  "script_records" : [ {
    "id" : "sawafaw12414214awfa",
    "script_id" : "string",
    "script_name" : "string",
    "script_task_id" : "string",
    "resource_id" : "string",
    "resource_name" : "string",
    "resource_type" : "string",
    "start_time" : "2024-12-25T07:10:49.357Z",
    "end_time" : "2024-12-25T07:10:49.357Z",
    "status" : "string",
    "execute_order" : 0,
    "result_code" : "string",
    "reason" : "string"
  } ]
}
```

Status Codes

Status Code	Description
200	Response to a successful request.

Status Code	Description
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.24.9 Querying Script Tasks

Function

Queries script tasks.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/script-execution-tasks

Table 4-2785 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-2786 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Query offset. The default value is 0 .

Parameter	Mandatory	Type	Description
limit	No	Integer	The number of records for each query ranges from 1 to 100. The default value is 10 .
resource_group_id	No	Array of strings	Resource group ID of script execution.
script_id	No	String	Script ID.
script_name	No	String	Script name.
status	No	String	Execution status.
resource_group_type	No	String	Resource group type.
task_id	No	Array of strings	Script execution task ID.
task_type	No	String	Task type (SCRIPT or COMMAND).
execute_time_start	No	String	Start time of the query by execution time. If this parameter is specified, all task records after this time are returned. A time example is 2021-10-01T12:00:00Z.
execute_time_end	No	String	End time of the query by execution time. If this parameter is specified, all task records before this time are returned. A time example is 2021-10-01T12:00:00Z.

Request Parameters

Table 4-2787 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-2788 Response body parameters

Parameter	Type	Description
count	Integer	Total number.
script_tasks	Array of ScriptTaskInfo objects	Script tasks.

Table 4-2789 ScriptTaskInfo

Parameter	Type	Description
id	String	Script task ID.
task_scripts	Array of task_scripts objects	Scripts.
resource_type	String	Resource type, for example, DESKTOP .
resource_ids	Array of strings	Resource IDs of script execution.
gray_resource_ids	Array of strings	Resource IDs for batch gray execution.
success_num	Integer	Number of successful execution records in a task.
failed_num	Integer	Number of failed execution records in a task.
skip_num	Integer	Number of skipped execution records in a task.
start_time	DateTime	Start time of script execution.
end_time	DateTime	End time of script execution.
status	String	Task result.

Table 4-2790 task_scripts

Parameter	Type	Description
id	String	Script ID.
name	String	Script name.

Status code: 400**Table 4-2791** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 401**Table 4-2792** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 403**Table 4-2793** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 404**Table 4-2794** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 405

Table 4-2795 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 500**Table 4-2796** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 503**Table 4-2797** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Example Requests

None

Example Responses

Status code: 200

Response to a successful request.

```
{
  "count" : 0,
  "script_tasks" : [ {
    "id" : "sawafaw12414214awfa",
    "task_scripts" : [ {
      "id" : "string",
      "name" : "string"
    } ],
    "resource_type" : "string",
    "resource_ids" : [ "string" ],
    "gray_resource_ids" : [ "string" ],
    "success_num" : 0,
  } ]
}
```

```
"failed_num" : 0,  
"skip_num" : 0,  
"start_time" : "2024-12-25T07:11:02.540Z",  
"end_time" : "2024-12-25T07:11:02.540Z",  
"status" : "string"  
}]  
}
```

Status Codes

Status Code	Description
200	Response to a successful request.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.24.10 Retrying a (Failed) Script Execution Task

Function

Retries a (failed) script execution task.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2/{project_id}/script-executions/retry

Table 4-2798 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-2799 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 4-2800 Request body parameters

Parameter	Mandatory	Type	Description
record_id	No	String	Script execution record ID.
task_id	No	String	Script execution task ID.

Response Parameters

Status code: 200

Table 4-2801 Response body parameters

Parameter	Type	Description
task_id	String	Script execution task ID.

Status code: 400

Table 4-2802 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.

Parameter	Type	Description
error_msg	String	Error message.

Status code: 401**Table 4-2803** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 403**Table 4-2804** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 404**Table 4-2805** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 405**Table 4-2806** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.

Parameter	Type	Description
error_msg	String	Error message.

Status code: 500

Table 4-2807 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 503

Table 4-2808 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Example Requests

```
{
  "record_id" : [ {
    "record_id" : "record_id"
  } ]
}
```

Example Responses

Status code: 200

Response to the request for retrying a script.

```
{
  "task_id" : "0000000059071dbc01591661d3990019"
}
```

Status Codes

Status Code	Description
200	Response to the request for retrying a script.

Status Code	Description
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.24.11 Stopping a Script or Command Execution Task

Function

Stops a script or command execution task.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2/{project_id}/script-executions/stop

Table 4-2809 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-2810 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 4-2811 Request body parameters

Parameter	Mandatory	Type	Description
record_id	No	String	Script execution record ID.
task_id	No	String	Script execution task ID.

Response Parameters

Status code: 200

Response to a successful request.

Status code: 400

Table 4-2812 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 401

Table 4-2813 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 403**Table 4-2814** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 404**Table 4-2815** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 405**Table 4-2816** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 500**Table 4-2817** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 503

Table 4-2818 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Example Requests

```
{
  "record_id": [ {
    "record_id": "record_id"
  } ]
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Response to a successful request.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.25 Quota

4.25.1 Querying Resource Quotas

Function

Console Framework and WKSDesktopManager call this API to query tenant quotas.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/quotas

Table 4-2819 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-2820 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body.

Response Parameters

Status code: 200

Table 4-2821 Response body parameters

Parameter	Type	Description
quotas	QuotaNoLimit object	Quota information.

Parameter	Type	Description
site_quotas	Array of SiteQuotaNoLimit objects	Site quota information, excluding the central site.

Table 4-2822 QuotaNoLimit

Parameter	Type	Description
resources	Array of ResourceNoLimit objects	Quota resources.

Table 4-2823 SiteQuotaNoLimit

Parameter	Type	Description
resources	Array of ResourceNoLimit objects	Quota resources.
site_id	String	Site ID.

Table 4-2824 ResourceNoLimit

Parameter	Type	Description
type	String	Resource type. general_instances: common desktop Memory: memory cores: CPU volumes: number of disks volume_gigabytes: disk capacity gpu_instances: GPU desktop deh: cloud office host users: user policy_groups: policy group Cores: CPU (used by the quota tool)
quota	Integer	Number of quotas.
used	Integer	Used quota.
unit	String	Quota unit.

Status code: 400**Table 4-2825** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401**Table 4-2826** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-2827** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404

Table 4-2828 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-2829** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
GET /v2/29dfe82ada564ac2b927e1ff036d9a9b/quotas
```

Example Responses

Status code: 200

Response to the request for querying tenant quotas.

```
{
  "quotas": {
    "resources": [ {
      "type": "general_instances",
      "quota": 10,
      "used": 3
    }, {
      "type": "volumes",
      "quota": 500,
      "used": 33
    }, {
      "type": "volume_gigabytes",
      "quota": 21500,
      "unit": "GB",
      "used": 2090
    }, {
      "type": "cores",
      "quota": 80,
      "used": 10
    }
  ]
}
```

```

    }, {
      "type": "Memory",
      "quota": 100,
      "unit": "GB",
      "used": 19
    }, {
      "type": "gpu_instances",
      "quota": 10,
      "used": 0
    }, {
      "type": "users",
      "quota": 3000,
      "used": 29
    }, {
      "type": "policy_groups",
      "quota": 10,
      "used": 0
    }, {
      "type": "Cores",
      "quota": 80,
      "used": 0
    }
  ]
},
"site_quotas": [ {
  "site_id": 147258369,
  "resources": [ {
    "type": "gpu_instances",
    "quota": 50,
    "used": 0
  }, {
    "type": "ies_instances",
    "quota": 500,
    "used": 0
  }
]
} ]
} ]
}

```

Status Codes

Status Code	Description
200	Response to the request for querying tenant quotas.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	You do not have required permissions.
404	No resources found.
500	An internal service error occurred. For details about the error code, see the error code description.

Error Codes

See [Error Codes](#).

4.25.2 Querying Tenant Quota Details of a Single Site

Function

Queries tenant quota details of a single site.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/quotas/detail

Table 4-2830 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-2831 Query Parameters

Parameter	Mandatory	Type	Description
site_id	No	String	Site ID.
az_code	No	String	AZ code.

Request Parameters

Table 4-2832 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body.

Response Parameters

Status code: 200

Table 4-2833 Response body parameters

Parameter	Type	Description
resources	Array of ResourceNoLimit objects	Quota resources.
site_id	String	Site ID.

Table 4-2834 ResourceNoLimit

Parameter	Type	Description
type	String	Resource type. general_instances: common desktop Memory: memory cores: CPU volumes: number of disks volume_gigabytes: disk capacity gpu_instances: GPU desktop deh: cloud office host users: user policy_groups: policy group Cores: CPU (used by the quota tool)
quota	Integer	Number of quotas.
used	Integer	Used quota.
unit	String	Quota unit.

Status code: 400**Table 4-2835** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401**Table 4-2836** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-2837** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-2838** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500

Table 4-2839 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
GET /v2/29dfe82ada564ac2b927e1ff036d9a9b/quotas/detail?site_id=147258369&az_code=cn-north-7-ies-ohzce
```

Example Responses

Status code: 200

Response to the request for querying tenant quotas.

```
{
  "resources": [ {
    "type": "string",
    "quota": 2147483647,
    "used": 2147483647,
    "unit": "string"
  } ],
  "site_id": "string"
}
```

Status Codes

Status Code	Description
200	Response to the request for querying tenant quotas.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
500	An internal service error occurred. For details, see the error code description.

Error Codes

See [Error Codes](#).

4.26 Image

4.26.1 Queries product images

Function

Queries the product images supported by Huawei Cloud Workspace.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/images

Table 4-2840 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-2841 Query Parameters

Parameter	Mandatory	Type	Description
os_type	No	String	OS of a product image, for example, Windows.
image_type	No	String	Image type. -gold: a public image -private: a private image
platform	No	String	Image OS, for example, Windows.
architecture	No	String	Image architecture: x86.
package_type	No	String	Package series.
image_id	No	String	Image ID.
limit	No	Integer	Number of records on each page. The value ranges from 0 to 100 and defaults to 100.
offset	No	Integer	Offset. The default value is 0.

Parameter	Mandatory	Type	Description
sort_field	No	String	Field used for sorting the query results. The value can be name or created_at of the image. The default value is name .
sort_type	No	String	Whether the query results are sorted in ascending or descending order. Its value can be desc or asc . This parameter is used together with sort_field and defaults to asc .

Request Parameters

Table 4-2842 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API that is used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body, for example, application/json.

Response Parameters

Status code: 200

Table 4-2843 Response body parameters

Parameter	Type	Description
images	Array of ImageInfo objects	Product images supported by Huawei Cloud Workspace.
total_count	Integer	Number of objects.

Table 4-2844 ImageInfo

Parameter	Type	Description
id	String	Image ID.
image_type	String	Image type. The value can be gold (public image) or private (private image).
os_type	String	OS type: Linux , Windows , or Other .
architecture	String	OS architecture. The value can be arm or x86 .
os_version	String	OS version.
disk_format	String	Image format: vhd , raw , qcow2 , or zvhd2 .
name	String	Image name.
min_ram	Integer	Minimum memory size (MB) required for running the image. The parameter value depends on the ECS flavor. The value is generally set to 0.
min_disk	Integer	Minimum disk space (GB) required for running the image. The value ranges from 40 to 1024.
product_code	String	Product code of the image.
created_at	String	Creation time. The value is in UTC format.

Status code: 400**Table 4-2845** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401

Table 4-2846 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-2847** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-2848** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 405

Table 4-2849 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-2850** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 503**Table 4-2851** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

- GET /v2/29dfe82ada564ac2b927e1ff036d9a9b/images?image_type=gold&os_type=Linux
- /v2/0e69423d4400f4a82f67c0059a1e4cc8/images?architecture=x86&image_type=private

Example Responses

Status code: 200

Response to the request for querying images in the OpenStack environment.

```
{
  "total_count": 1,
  "images": [ {
    "id": "d6b368bc-a24d-4fb5-a8fb-727356a53f33",
    "image_type": "gold",
    "os_type": "Linux",
    "os_version": "EulerOS 2.2 64bit",
    "disk_format": "qcow2",
    "name": "Euler_Online_Tenant_vAG",
    "min_ram": 0,
    "min_disk": 50
  }, {
    "id": "bef99a44-2b6a-4ef9-b1a2-204a4910e374",
    "image_type": "gold",
    "os_type": "Linux",
    "os_version": "EulerOS 2.5 64bit",
    "disk_format": "qcow2",
    "name": "FA-LZ-x86vAG-801temp",
    "min_ram": 0,
    "min_disk": 60
  } ]
}
```

Status Codes

Status Code	Description
200	Response to the request for querying images in the OpenStack environment.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	You do not have required permissions.
404	No resource found.
405	The request method is not allowed.
500	An internal service error occurred. For details about the error code, see the error code description.
503	The service is unavailable.

Error Codes

See [Error Codes](#).

4.26.2 Obtaining KooGallery Images

Function

Obtains KooGallery images.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/market-images

Table 4-2852 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-2853 Query Parameters

Parameter	Mandatory	Type	Description
image_ids	Yes	Array of strings	Image ID. 1 to 100 image IDs are allowed.

Request Parameters

Table 4-2854 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-2855 Response body parameters

Parameter	Type	Description
images	Array of Image objects	Image information list.

Table 4-2856 Image

Parameter	Type	Description
image_id	String	Image ID.
min_disk	Integer	Minimum disk space (GB) required for running the image. The value ranges from 40 to 1,024.
created_at	String	Creation time (UTC) in the format of yyyy-MM-ddTHH:mm:ssZ.
image_size	String	Size of the image file, in byte.
updated_at	String	Update time (UTC) in the format of yyyy-MM-ddTHH:mm:ssZ.
product_code	String	Product ID of a KooGallery image.
max_ram	String	Maximum memory (MB) of the image. The parameter value depends on the ECS specifications and is not configured.
market_resource_type_code	String	KooGallery resource type code.
min_ram	Integer	Minimum memory size (MB) required for running the image. The parameter value depends on the ECS specifications and defaults to 0 .
os_type	String	OS type: Linux , Windows , or Other .
image_type	String	Image type. The value can be gold (public image), private (private image), or shared (shared image).
tags	Array of strings	Image tags.
platform	String	Image platform type.
os_bit	String	OS architecture, 32-bit or 64-bit.
os_version	String	OS version.
name	String	Image name.

Parameter	Type	Description
market_service_type_code	String	KooGallery service type code.
status	String	Image status.

Status code: 400**Table 4-2857** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401**Table 4-2858** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403

Table 4-2859 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-2860** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

None

Example Responses

Status code: 200

Response to the request for obtaining KooGallery images.

```
{
  "images" : [ {
    "image_id" : "string",
    "min_disk" : 0,
    "created_at" : "2023-09-21T01:12:11Z",
    "image_size" : "string",
    "updated_at" : "2023-09-21T12:00:44Z",
    "product_code" : "string",
    "max_ram" : "string",
    "market_resource_type_code" : "string",
    "min_ram" : 0,
  }
]
```

```
"os_type" : "string",
"image_type" : "string",
"tags" : [ "string" ],
"platform" : "string",
"os_bit" : "string",
"os_version" : "string",
"name" : "string",
"market_service_type_code" : "string",
"status" : "string"
} ]
}
```

Status Codes

Status Code	Description
200	Response to the request for obtaining KooGallery images.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
500	Internal server error.

Error Codes

See [Error Codes](#).

4.27 AZ

4.27.1 Querying AZs

Function

Queries AZs where Huawei Cloud Workspace is available.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/availability-zones

Table 4-2861 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-2862 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body, for example, application/json .

Response Parameters

Status code: 200

Table 4-2863 Response body parameters

Parameter	Type	Description
availability_zones	Array of AvailabilityZone objects	AZs where Huawei Cloud Workspace is available.
total_count	Integer	Total number of AZs where Huawei Cloud Workspace is available.

Table 4-2864 AvailabilityZone

Parameter	Type	Description
availability_zone	String	AZ code.
display_name	String	AZ name.
i18n	Map<String,String>	AZ internationalization information.

Parameter	Type	Description
sold_out	SoldOutInfo object	Information about sold-out resources in the current AZ.
product_ids	Array of strings	Product IDs supported by the current AZ. If this parameter is left empty, all packages are supported.
visible	Boolean	Visible or not.
default_availability_zone	Boolean	Whether to set the AZ as a default AZ.

Table 4-2865 SoldOutInfo

Parameter	Type	Description
products	Array of strings	IDs of sold-out products.

Status code: 400**Table 4-2866** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorizati-on-message of STS to decrypt the reason.

Status code: 401**Table 4-2867** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorizati-on-message of STS to decrypt the reason.

Status code: 403**Table 4-2868** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-2869** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 405**Table 4-2870** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500

Table 4-2871 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 503**Table 4-2872** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
GET /v2/92c84e5bce3d48d7ab5714a44901eb08/availability-zones
```

Example Responses

Status code: 200

Response to the request for querying AZs.

```
{
  "availability_zones": [ {
    "availability_zone": "string",
    "display_name": "string",
    "sold_out": { },
    "product_ids": [ "string" ],
    "visible": true,
    "default_availability_zone": true
  } ],
  "total_count": 1
}
```

Status Codes

Status Code	Description
200	Response to the request for querying AZs.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.27.2 Querying AZ Summary

Function

Queries AZs where Huawei Cloud Workspace is available.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/availability-zones/summary

Table 4-2873 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-2874 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body, for example, application/json .

Response Parameters

Status code: 200

Table 4-2875 Response body parameters

Parameter	Type	Description
support_type	Array of strings	Supported type.
default_type	String	Default type.
azs	Map<String,Array< AzInfo >>	AZ.

Table 4-2876 AzInfo

Parameter	Type	Description
availability_zone	String	AZ name.
i18n	I18n object	Internationalization.
default_availability_zone	Boolean	Whether the AZ is the default one.

Table 4-2877 I18n

Parameter	Type	Description
zh_cn	String	AZ name in Chinese.

Parameter	Type	Description
en_us	String	AZ name in English.

Status code: 400**Table 4-2878** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401**Table 4-2879** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-2880** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-2881** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-2882** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
GET /v2/92c84e5bce3d48d7ab5714a44901eb08/availability-zones/summary
```

Example Responses**Status code: 200**

Response to the request for querying AZs.

```
{
  "support_type": [ "string" ],
  "default_type": "string",
  "azs": {
    "CENTER": [ {
      "availability_zone": "string",
      "i18n": {
        "zh_cn": "string",
        "en_us": "string"
      }
    } ],
    "default_availability_zone": true
  },
  "IES": [ {
    "availability_zone": "string",
    "i18n": {
      "zh_cn": "string",
```

```

    "en_us" : "string"
  },
  "default_availability_zone" : true
}]
}
}

```

Status Codes

Status Code	Description
200	Response to the request for querying AZs.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
500	An internal service error occurred. For details, see the error code description.

Error Codes

See [Error Codes](#).

4.27.3 Querying AZ Details

Function

Queries AZs where Huawei Cloud Workspace is available.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/availability-zones/detail

Table 4-2883 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-2884 Query Parameters

Parameter	Mandatory	Type	Description
availability_zone_id	Yes	String	AZ ID.

Request Parameters

Table 4-2885 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body, for example, application/json .

Response Parameters

Status code: 200

Table 4-2886 Response body parameters

Parameter	Type	Description
id	String	Corresponds to the zoneCode field in the region data of CMDB.
region_id	String	Corresponds to the regionCode field in the region data of CMDB.
type	String	AZ type. Options: <ul style="list-style-type: none"> • Edge: edge cloud • Workspace: Huawei Cloud
display_name	String	English name.
status	String	Status.
sold_out	SoldOutInfo object	Information about sold-out resources in the current AZ.
product_ids	Array of strings	Product ID set.

Parameter	Type	Description
mode	String	Billing mode, which can be dedicated or shared.
alias	String	AZ alias, which can contain a maximum of 128 characters, including digits, letters, underscores (_), and hyphens (-).
public_border_group	String	Group to which the EIP belongs.
category	Integer	Category ID: <ul style="list-style-type: none"> • 0: default • 21: HomeZone • 41: IES

Table 4-2887 SoldOutInfo

Parameter	Type	Description
products	Array of strings	IDs of sold-out products.

Status code: 400**Table 4-2888** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401**Table 4-2889** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Parameter	Type	Description
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-2890** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-2891** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-2892** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Parameter	Type	Description
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
GET /v2/92c84e5bce3d48d7ab5714a44901eb08/availability-zones/detail?availability_zone_id=br-iaas-odin1raa
```

Example Responses

Status code: 200

Response to the request for querying AZs.

```
{
  "id": "string",
  "region_id": "string",
  "type": "string",
  "display_name": "string",
  "status": "string",
  "sold_out": {
    "products": [ "string" ]
  },
  "product_ids": [ "string" ],
  "mode": "string",
  "alias": "string",
  "public_border_group": "string",
  "category": 0
}
```

Status Codes

Status Code	Description
200	Response to the request for querying AZs.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
500	An internal service error occurred. For details, see the error code description.

Error Codes

See [Error Codes](#).

4.28 Task

4.28.1 Querying Task Details

Function

Queries the execution status of an asynchronous task, such as a desktop creation task.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/workspace-jobs/{job_id}

Table 4-2893 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
job_id	Yes	String	Task ID.

Request Parameters

Table 4-2894 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body.

Response Parameters

Status code: 200

Table 4-2895 Response body parameters

Parameter	Type	Description
id	String	Task ID.
job_type	String	Task type.
begin_time	String	Task start time.
end_time	String	Task end time.
status	String	Task status.
job_error_code	String	Task error code.
fail_reason	String	Task failure cause.
sub_jobs_total	Integer	Total number of subtasks.
sub_jobs	Array of JobDetailInfo objects	Subtasks.

Table 4-2896 JobDetailInfo

Parameter	Type	Description
id	String	Subtask ID.
job_type	String	Task type.
entities	JobEntities object	Task.
begin_time	String	Task creation time.
end_time	String	Task end time.
status	String	Task status.
error_code	String	Error code of a failed task.
fail_reason	String	Task failure cause.
host	String	IP address of the server where the task is executed.
project_id	String	Project ID.
job_id	String	Task ID.
process	Integer	Task progress.
attach_user	String	Associate user.
entity	String	Operation object.
ip_address	String	IP address.

Table 4-2897 JobEntities

Parameter	Type	Description
desktop_id	String	Desktop ID.
product_id	String	Package ID.
user_name	String	Username.
desktop_name	String	Desktop name.
ip_address	String	IP address.

Status code: 404**Table 4-2898** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: default**Table 4-2899** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
GET /v2/ac234de25c6741d2b1273da49eea1b9e/workspace-jobs/2382dd96-xxxx56d-axxc4b09a35b58
```

Example Responses

Status code: 200

Response to the request for querying task details.

```
{}
```

Status Codes

Status Code	Description
200	Response to the request for querying task details.
404	No resources found.
default	Default response to a failure.

Error Codes

See [Error Codes](#).

4.28.2 Querying Subtasks

Function

Queries the execution status of an asynchronous task, such as a desktop creation task.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/workspace-sub-jobs

Table 4-2900 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-2901 Query Parameters

Parameter	Mandatory	Type	Description
status	No	String	Task status. <ul style="list-style-type: none">• SUCCESS: succeeded• RUNNING: running• FAILED: failed• WAITING: waiting for execution
job_id	No	String	Task ID. You are advised to set either job_type or job_id , or both.

Parameter	Mandatory	Type	Description
job_type	No	String	<p>Task type. You are advised to set either job_type or job_id, or both.</p> <ul style="list-style-type: none"> ● createDesktops: creating a desktop ● applyWorkspace: enabling Huawei Cloud Workspace ● cancelWorkspace: canceling Huawei Cloud Workspace ● expandVolumes: expanding disk capacity ● addVolumes: adding a disk ● rebuildDesktops: rebuilding a desktop system disk ● createSnapshot: creating a disk snapshot ● deleteSnapshot: deleting a disk snapshot ● deleteDesktops: deleting a desktop ● desktopRejoinDomain: re-adding a desktop to a domain ● operateDesktops: performing operations on a desktop ● restoreDesktopBySnapshot: restoring a desktop using a snapshot ● desktopToImage: converting a desktop to an image ● attachDesktops: assigning a desktop ● deleteVolumes: deleting a desktop disk (data disk) ● createWksSnapshot: creating a snapshot ● deleteWksSnapshot: deleting a snapshot ● createDesktopPool: creating a desktop pool

Parameter	Mandatory	Type	Description
			<ul style="list-style-type: none"> • expandDesktopPool: expanding the desktop pool capacity • deleteDesktopPoolVolumes: deleting a desktop disk (data disk) from a desktop pool • rebuildDesktopPool: rebuilding system disks of a desktop pool • addDesktopPoolVolumes: adding a disk to a desktop pool • detachDesktops: unbinding a desktop from a desktop pool • attachDesktopPool: assigning desktops in a desktop pool • batchDetachDesktops: unbinding desktops from users in batches • executeDesktopsAction: performing operations on a desktop • changeDesktopNetwork: switching the network of a desktop • batchChangeDesktopNetwork: switching the network of desktops in batches
desktop_pool_id	No	String	Desktop pool ID.
limit	No	Integer	Pagination query. The value ranges from 0 to 1000 and defaults to 1000 .
offset	No	Integer	Where the pagination query starts. The value starts from 0 .

Request Parameters

Table 4-2902 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body.

Response Parameters

Status code: 200

Table 4-2903 Response body parameters

Parameter	Type	Description
total_count	Integer	Total number of tasks in the task list.
jobs	Array of JobDetailInfo objects	Task list.

Table 4-2904 JobDetailInfo

Parameter	Type	Description
id	String	Subtask ID.
job_type	String	Task type.
entities	JobEntities object	Task.
begin_time	String	Task creation time.
end_time	String	Task end time.
status	String	Task status.
error_code	String	Error code of a failed task.
fail_reason	String	Task failure cause.
host	String	IP address of the server where the task is executed.

Parameter	Type	Description
project_id	String	Project ID.
job_id	String	Task ID.
process	Integer	Task progress.
attach_user	String	Associate user.
entity	String	Operation object.
ip_address	String	IP address.

Table 4-2905 JobEntities

Parameter	Type	Description
desktop_id	String	Desktop ID.
product_id	String	Package ID.
user_name	String	Username.
desktop_name	String	Desktop name.
ip_address	String	IP address.

Status code: 400**Table 4-2906** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401**Table 4-2907** Response body parameters

Parameter	Type	Description
error_code	String	Error code.

Parameter	Type	Description
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-2908** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-2909** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 405**Table 4-2910** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Parameter	Type	Description
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500

Table 4-2911 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 503

Table 4-2912 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
GET /v2/ac234de25c6741d2b1273da49eea1b9e/workspace-sub-jobs?
status=FAILED&status=RUNNING&job_type=createDesktops
null
```

Example Responses

Status code: 200

Response to task details.

```
{
  "total_count": 2,
```

```

"jobs" : [ {
  "status" : "RUNNING",
  "entities" : {
    "user_name" : "user-test-01",
    "product_id" : "workspace.c2.large.windows",
    "desktop_id" : "9d30c8ac-77b5-4453-80da-8f027223ee99"
  },
  "job_id" : "0e2dae94-23ff-449a-bb9c-1b808cf2106d",
  "job_type" : "createDesktops",
  "begin_time" : "2020-04-10 06:45:14",
  "end_time" : "2020-04-10 07:06:10",
  "id" : "e43caef5-e478-4624-9e8c-b0b636331cbc"
}, {
  "status" : "RUNNING",
  "entities" : {
    "user_name" : "user-test-01",
    "product_id" : "workspace.c2.large.windows",
    "desktop_id" : "14cccba0-12a6-4b66-9fd9-57290328f8da"
  },
  "job_id" : "0e2dae94-23ff-449a-bb9c-1b808cf2106d",
  "job_type" : "createDesktops",
  "begin_time" : "2020-04-10 06:45:14",
  "end_time" : "2020-04-10 07:05:49",
  "id" : "cf5043e9-dd94-43be-9c07-6dba5d43c4d2"
} ]
}

```

Status Codes

Status Code	Description
200	Response to task details.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.28.3 Deleting a Subtask

Function

Deletes a subtask.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2/{project_id}/workspace-sub-jobs/batch-delete

Table 4-2913 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-2914 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body.

Table 4-2915 Request body parameters

Parameter	Mandatory	Type	Description
job_ids	No	Array of strings	Task IDs. Only tasks in the SUCCESS or FAILED status can be deleted. Either job_ids or delete_by_status must be specified.
delete_by_status	No	String	You can delete a task only when the task is in the SUCCESS or FAILED status. Either job_ids or delete_by_status must be specified.

Response Parameters

Status code: 200

Normal.

Status code: 400

Table 4-2916 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401

Table 4-2917 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403

Table 4-2918 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-2919** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 405**Table 4-2920** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-2921** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 503

Table 4-2922 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
POST /v2/ac234de25c6741d2b1273da49eea1b9e/workspace-sub-jobs/batch-delete
{
  "delete_by_status": "FAILED"
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Normal.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.28.4 Retrying a Task

Function

Retries a failed task. Currently, only registration and deregistration tasks can be retried.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2/{project_id}/workspace-jobs/{job_id}/actions

Table 4-2923 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
job_id	Yes	String	Task ID.

Request Parameters

Table 4-2924 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body.

Table 4-2925 Request body parameters

Parameter	Mandatory	Type	Description
op_type	Yes	String	Operation type. retry : retrying

Response Parameters

Status code: 200

Table 4-2926 Response body parameters

Parameter	Type	Description
job_id	String	Task ID.

Status code: 400

Table 4-2927 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 401

Table 4-2928 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403

Table 4-2929 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.

Parameter	Type	Description
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-2930** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-2931** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
POST /v2/29dfe82ada564ac2b927e1ff036d9a9b/workspace-jobs/6783cecb-0e5c-4521-a3ea-825f551c1ba9/actions
```

```
{
  "op_type": "retry"
}
```

Example Responses**Status code: 200**

Normal.

```
{
  "job_id" : "0e2dae94-23ff-449a-bb9c-1b808cf2106d"
}
```

Status Codes

Status Code	Description
200	Normal.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
500	An internal service error occurred. For details, see the error code description.

Error Codes

See [Error Codes](#).

4.29 Network

4.29.1 Enabling Network Access

Function

Enables network access.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2/{project_id}/internet

Table 4-2932 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-2933 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 4-2934 Request body parameters

Parameter	Mandatory	Type	Description
nat_spec	Yes	String	Public NAT gateway specifications. 1 : small; 2 : medium; 3 : large; 4 : extra-large.
eip_charge_mode	Yes	String	Billed by traffic or bandwidth.
bandwidth_size	Yes	Integer	Bandwidth size.
eip_type	No	String	EIP type. Options: 5_bgp (default, dynamic BGP) and 5_sbgp (static BGP).
vpc_id	Yes	String	VPC ID.
subnet_id	Yes	String	Subnet ID.
enterprise_project_id	No	String	Enterprise project ID, which is 0 by default.
nat_id	No	String	NAT gateway ID. If the ID is specified, the corresponding NAT gateway is used. If not, create one.
nat_name	No	String	NAT gateway name, which defaults to nat-workspace .
eip_name	No	String	EIP name, which defaults to eip-workspace .

Response Parameters

Status code: 200

Response to the request for enabling network access.

Status code: default

Table 4-2935 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
/v2/0e69423d4400f4a82f67c0059a1e4cc8/internet
{
  "nat_spec": "string",
  "eip_charge_mode": "string",
  "bandwidth_size": 1,
  "eip_type": "string",
  "vpc_id": "string",
  "subnet_id": "string",
  "enterprise_project_id": "string",
  "nat_name": "string",
  "eip_name": "string"
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Response to the request for enabling network access.
default	Default response.

Error Codes

See [Error Codes](#).

4.29.2 Querying Network Access

Function

Queries network access.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/internet

Table 4-2936 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-2937 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID.
nat_name	No	String	NAT gateway name.
eip	No	String	EIP.

Request Parameters

Table 4-2938 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-2939 Response body parameters

Parameter	Type	Description
internet_infos	Array of InternetInfo objects	Network access information.

Table 4-2940 InternetInfo

Parameter	Type	Description
vpc_name	String	VPC name.
subnet_id	String	Subnet ID.
subnet_name	String	Subnet name.
nat_id	String	NAT gateway ID.
nat_name	String	NAT gateway name.
eip	String	EIP.
created_at	String	Creation time.
status	String	Status.
enterprise_project_id	String	Enterprise project ID.

Status code: default**Table 4-2941** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

None

Example Responses

Status code: 200

Response to the request for querying network access.

```
{
  "internet_infos": [ {
    "vpc_name": "string",
    "subnet_id": "string",
    "subnet_name": "string",
    "nat_id": "string",
    "nat_name": "string",
    "eip": "string",
    "created_at": "string",
    "status": "string",
    "enterprise_project_id": "string"
  } ]
}
```

Status Codes

Status Code	Description
200	Response to the request for querying network access.
default	Default response.

Error Codes

See [Error Codes](#).

4.29.3 Querying EIPs Bound to Desktops and Unbound EIPs

Function

Queries EIPs bound to desktops and unbound EIPs.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/eips

Table 4-2942 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-2943 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID.
desktop_id	No	String	Desktop ID.
desktop_name	No	String	Desktop name.
user_name	No	String	User to whom the desktop belongs.
address	No	String	EIP.
offset	No	Integer	Start position for pagination query. The value starts from 0.
limit	No	Integer	Maximum number of desktops that can be returned in a pagination query. If this parameter is not specified, all records that meet the search criteria are returned.
state	No	String	Specifies the EIP binding status. <ul style="list-style-type: none"> • bind: indicates a bound EIP. • unbind: indicates an unbound EIP.

Request Parameters

Table 4-2944 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body.

Response Parameters

Status code: 200

Table 4-2945 Response body parameters

Parameter	Type	Description
eips	Array of Eips objects	Specifies the desktop EIP.
total_count	Integer	Total number.

Table 4-2946 Eips

Parameter	Type	Description
id	String	EIP ID.
address	String	EIP.
bandwidth_size	Integer	Bandwidth range.
eip_charge_mode	String	traffic (billed by traffic) and bandwidth (billed by bandwidth).
create_time	String	Creation time in the yyyy-MM-ddTHH:mm:ssZ format.
attached_desktop_id	String	Specifies the ID of the bound desktop.
attached_desktop_name	String	Specifies the name of the bound desktop.
enterprise_project_id	String	Enterprise project ID.

Status code: default**Table 4-2947** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

None

Example Responses

Status code: 200

Response to the request for querying the Internet access function.

```
{
  "eips" : [ {
    "id" : "string",
    "address" : "string",
    "bandwidth_size" : 2000,
    "eip_charge_mode" : "string",
    "create_time" : "string",
    "attached_desktop_id" : "string",
    "attached_desktop_name" : "string",
    "enterprise_project_id" : "string"
  } ],
  "total_count" : 0
}
```

Status Codes

Status Code	Description
200	Response to the request for querying the Internet access function.
default	Default response.

Error Codes

See [Error Codes](#).

4.29.4 Enabling the Desktop Internet Access Function

Function

Enable the desktop Internet access function.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2/{project_id}/eips

Table 4-2948 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-2949 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body.

Table 4-2950 Request body parameters

Parameter	Mandatory	Type	Description
desktop_ids	No	Array of strings	IDs of desktops for which the Internet access function is to be enabled.
eip_type	Yes	String	For details about the supported types, see types supported by the eip service. You can call the API (https://support.huaweicloud.com/api-eip/ShowPublicIpType.html) for query.
eip_charge_mode	Yes	String	EIP bandwidth billing mode <ul style="list-style-type: none"> • TRAFFIC: billed by traffic • BANDWIDTH: billed by bandwidth

Parameter	Mandatory	Type	Description
bandwidth_size	Yes	Integer	Specifies the bandwidth size in Mbit/s. The value ranges from 1 Mbit/s to 2000 Mbit/s by default. (The specific range may vary by region. You can see the available bandwidth range on the management console.)
enterprise_project_id	No	String	Enterprise project ID, which is 0 by default.
count	No	Integer	Number of EIPs to be purchased. This parameter is mandatory when desktop_ids is empty. This parameter is valid when EIPs are purchased separately.

Response Parameters

Status code: 200

Table 4-2951 Response body parameters

Parameter	Type	Description
job_id	String	Task ID.

Status code: default

Table 4-2952 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
/v2/0e69423d4400f4a82f67c0059a1e4cc8/eips
{
  "desktop_ids" : [ "90f05916-bc71-4e26-a534-d036188d96e3" ],
  "eip_charge_mode" : "string",
  "bandwidth_size" : 1,
  "eip_type" : "5_bgp"
}
```

Example Responses

Status code: 200

Response to the request for enabling the Internet access function.

```
{
  "job_id" : "fa9e41e1-1221-47c3-a43c-67a1271e2093"
}
```

Status Codes

Status Code	Description
200	Response to the request for enabling the Internet access function.
default	Default response.

Error Codes

See [Error Codes](#).

4.29.5 Binding an EIP to a Desktop

Function

Bind an EIP to the desktop.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2/{project_id}/eips/binding

Table 4-2953 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-2954 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body.

Table 4-2955 Request body parameters

Parameter	Mandatory	Type	Description
eip_id	Yes	String	ID of the EIP bound to the desktop.
desktop_id	Yes	String	Desktop ID.

Response Parameters

Status code: 200

Response to the request for binding an EIP to a desktop.

Status code: default

Table 4-2956 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
/v2/0e69423d4400f4a82f67c0059a1e4cc8/eips/binding
{
  "eip_id" : "450ca7d4-9603-48d0-a9bc-fb85cdaf3031",
  "desktop_id" : "90f05916-bc71-4e26-a534-d036188d96e3"
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Response to the request for binding an EIP to a desktop.
default	Default response.

Error Codes

See [Error Codes](#).

4.29.6 Unbinding EIPs from Desktops in Batches

Function

Unbind EIPs from desktops in batches.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2/{project_id}/eips/unbinding

Table 4-2957 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-2958 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body.

Table 4-2959 Request body parameters

Parameter	Mandatory	Type	Description
desktop_ids	No	Array of strings	Specifies the ID of the desktop from which the EIP is to be unbound.

Response Parameters

Status code: 200

Response to the request for unbinding an EIP from a desktop.

Status code: default

Table 4-2960 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
/v2/0e69423d4400f4a82f67c0059a1e4cc8/eips/unbinding
{
  "desktop_ids" : [ "90f05916-bc71-4e26-a534-d036188d96e3" ]
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Response to the request for unbinding an EIP from a desktop.
default	Default response.

Error Codes

See [Error Codes](#).

4.29.7 Querying Subnet IDs in Use

Function

Queries IDs of subnets in use based on the subnet ID list and returns the subnet ID list.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/subnets/using-subnets

Table 4-2961 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-2962 Query Parameters

Parameter	Mandatory	Type	Description
subnet_ids	No	String	Subnet IDs are separated by commas (,).

Request Parameters

Table 4-2963 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-2964 Response body parameters

Parameter	Type	Description
subnet_ids	Array of strings	IDs of desktop subnets in use.

Status code: 401

Table 4-2965 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-2966** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-2967** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-2968** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.

Parameter	Type	Description
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

None

Example Responses

Status code: 200

Response to available IP addresses.

```
{
  "subnet_ids" : [ "string" ]
}
```

Status Codes

Status Code	Description
200	Response to available IP addresses.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
500	An internal service error occurred. For details, see the error code description.

Error Codes

See [Error Codes](#).

4.29.8 Querying Ports

Function

Queries ports.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/ports

Table 4-2969 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-2970 Query Parameters

Parameter	Mandatory	Type	Description
marker	No	String	Resource ID at the beginning for pagination query.
limit	No	Integer	Specifies the number of records displayed on each page. The value ranges from 1 to 2,000. Default value: 2,000 .
ip_address	No	String	IP address.
subnet_id	No	String	Subnet ID.
is_used	No	Boolean	Whether to use or not.

Request Parameters

Table 4-2971 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-2972 Response body parameters

Parameter	Type	Description
ports	Array of NeutronPort objects	Port list.

Table 4-2973 NeutronPort

Parameter	Type	Description
id	String	Port ID that uniquely identifies the port.
status	String	Private IP address status.
network_id	String	ID of the network where the port is.
device_id	String	ID of the device to which the port belongs.
fixed_ips	Array of FixedIp objects	Port IP address.

Table 4-2974 FixedIp

Parameter	Type	Description
subnet_id	String	Subnet ID.
ip_address	String	Port IP address.

Status code: 401**Table 4-2975** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-2976** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-2977** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-2978** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.

Parameter	Type	Description
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

None

Example Responses

Status code: 200

Verification result.

```
{
  "ports": [ {
    "id": "string",
    "status": "string",
    "network_id": "string",
    "fixed_ips": [ {
      "subnet_id": "string",
      "ip_address": "string"
    } ]
  } ]
}
```

Status Codes

Status Code	Description
200	Verification result.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
500	An internal service error occurred. For details, see the error code description.

Error Codes

See [Error Codes](#).

4.29.9 Querying NAT Gateways

Function

Queries NAT gateways.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/nat-gateways

Table 4-2979 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-2980 Query Parameters

Parameter	Mandatory	Type	Description
id	No	String	Public NAT gateway ID.
enterprise_project_id	No	String	Enterprise project ID, which is associated with the public NAT gateway when the gateway is created.
description	No	String	Public NAT gateway description, which contains up to 255 characters.
created_at	No	String	Creation time of the public NAT gateway. It is a UTC time in yyyy-mm-ddThh:mm:ssZ format.
name	No	String	Public NAT gateway name, which contains up to 64 characters in digits, letters, underscores (_), and hyphens (-).
status	No	Array of strings	Public NAT gateway status. Options: ACTIVE PENDING_CREATE PENDING_UPDATE PENDING_DELETE INACTIVE

Parameter	Mandatory	Type	Description
spec	No	Array of strings	Public NAT gateway specifications. Options: 1 : small type, which supports up to 10,000 SNAT connections. 2 : medium type, which supports up to 50,000 SNAT connections. 3 : large type, which supports up to 200,000 SNAT connections. 4 : extra-large type, which supports up to 1 million SNAT connections.
router_id	No	String	VPC ID.
limit	No	Integer	Specifies the number of records displayed on each page. The value ranges from 1 to 2,000. Default value: 2,000 .

Request Parameters

Table 4-2981 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-2982 Response body parameters

Parameter	Type	Description
nat_gateways	Array of NatGateway objects	Gateway instance information list.

Table 4-2983 NatGateway

Parameter	Type	Description
id	String	Gateway instance ID.
tenant_id	String	Project ID.
name	String	Public NAT gateway name, which contains up to 64 characters.
description	String	Public NAT gateway description, which contains up to 255 characters.
spec	String	Public NAT gateway specifications. Options: 1 : small type, which supports up to 10,000 SNAT connections. 2 : medium type, which supports up to 50,000 SNAT connections. 3 : large type, which supports up to 200,000 SNAT connections. 4 : extra-large type, which supports up to 1 million SNAT connections.
status	String	Public NAT gateway status. Options: ACTIVE PENDING_CREATE PENDING_UPDATE PENDING_DELETE INACTIVE
admin_state_up	String	Public NAT gateway name, which contains up to 64 characters. Whether the NAT gateway is frozen. Options: true : unfrozen false : frozen
created_at	String	Creation time of the public NAT gateway. It is a UTC time in yyyy-mm-ddThh:mm:ssZ format.
router_id	String	VPC ID.
internal_network_id	String	Network ID of the downstream interface (the next hop of DVR) of the public NAT gateway. DVR is Distributed Virtual Routing.
enterprise_project_id	String	Enterprise project ID, which is associated with the public NAT gateway when the gateway is created.

Status code: 401**Table 4-2984** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 403**Table 4-2985** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-2986** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.

Parameter	Type	Description
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500

Table 4-2987 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

None

Example Responses

Status code: 200

Verification result.

```
{
  "nat_gateways": [ {
    "id": "string",
    "tenant_id": "string",
    "name": "string",
    "description": "string",
    "spec": "string",
    "status": "string",
    "admin_state_up": "string",
    "created_at": "string",
    "router_id": "string",
    "internal_network_id": "string",
    "enterprise_project_id": "string"
  } ]
}
```

Status Codes

Status Code	Description
200	Verification result.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
500	An internal service error occurred. For details, see the error code description.

Error Codes

See [Error Codes](#).

4.29.10 Creating Workspace Bandwidth

Function

Creates pay-per-use Workspace bandwidth.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2/{project_id}/bandwidths

Table 4-2988 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-2989 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body.

Table 4-2990 Request body parameters

Parameter	Mandatory	Type	Description
bandwidth_name	No	String	Workspace bandwidth name.
subnet_id	Yes	String	Subnet ID.
charge_mode	Yes	String	Billing mode. <ul style="list-style-type: none"> • wks_bandwidth: billed by bandwidth. This mode is supported only for yearly/monthly billing. • free: free of charge. This mode is supported only for pay-per-use billing. • wks_traffic: billed by traffic. This mode is supported only for pay-per-use billing.
bandwidth_size	No	Integer	Workspace bandwidth size.
enterprise_project_id	No	String	Enterprise project ID, which is 0 by default.

Response Parameters

Status code: 200

Table 4-2991 Response body parameters

Parameter	Type	Description
job_id	String	Task ID.

Status code: default**Table 4-2992** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
/v2/0e69423d4400f4a82f67c0059a1e4cc8/bandwidths
{
  "subnet_id" : "2fe2cebf-fb0c-40a6-8daa-f60bef147583",
  "charge_mode" : "wks_bandwidth",
  "bandwidth_size" : 1
}
```

Example Responses

Status code: 200

Response to the request for creating Workspace bandwidth.

```
{
  "job_id" : "fa9e41e1-1221-47c3-a43c-67a1271e2093"
}
```

Status Codes

Status Code	Description
200	Response to the request for creating Workspace bandwidth.
default	Default response.

Error Codes

See [Error Codes](#).

4.29.11 Querying the Workspace Bandwidth List

Function

Queries the Workspace bandwidth list.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/bandwidths

Table 4-2993 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-2994 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID.
offset	No	Integer	Where the pagination query starts. The value starts from 0 .
limit	No	Integer	Limits the quantity of returned desktops in pagination query. If this parameter is not specified, all records that meet the search criteria are returned.
vpc_id	No	String	VPC ID.
subnet_id	No	String	Subnet ID.
bandwidth_id	No	String	Workspace bandwidth ID.
bandwidth_name	No	String	Workspace bandwidth name.

Request Parameters

Table 4-2995 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-2996 Response body parameters

Parameter	Type	Description
bandwidths	Array of SubnetBandwidthDetail objects	Workspace bandwidth information.
total_count	Integer	Total number.

Table 4-2997 SubnetBandwidthDetail

Parameter	Type	Description
bandwidth_id	String	Workspace bandwidth ID.
bandwidth_name	String	Workspace bandwidth name.
charge_mode	String	Workspace bandwidth billing mode.
size	Integer	Workspace bandwidth size.
vpc_id	String	VPC ID.
vpc_name	String	VPC name.
subnet_id	String	Subnet ID.
subnet_name	String	Subnet name.
enterprise_project_id	String	Enterprise project ID.
created_at	String	Creation time.

Parameter	Type	Description
order_id	String	Order ID.
status	String	Status. <ul style="list-style-type: none"> ● CREATING: being created ● ACTIVE: in use ● INACTIVE: disabled ● UPDATING: being updated ● DELETING: being deleted
control_mode	String	Status. <ul style="list-style-type: none"> ● BLACK: blacklist control ● WHITE: whitelist control

Status code: default**Table 4-2998** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorizati-on-message of STS to decrypt the reason.

Example Requests

None

Example Responses**Status code: 200**

Response to the request for querying the Workspace bandwidth list.

```
{
  "bandwidths": [ {
    "bandwidth_id": "string",
    "bandwidth_name": "string",
    "charge_mode": "string",
    "size": 0,
    "vpc_id": "string",
    "vpc_name": "string",
```

```

"subnet_id" : "string",
"subnet_name" : "string",
"enterprise_project_id" : "string",
"created_at" : "string",
"order_id" : "string",
"status" : "string",
"control_mode" : "string"
} ],
"total_count" : 0
}

```

Status Codes

Status Code	Description
200	Response to the request for querying the Workspace bandwidth list.
default	Default response.

Error Codes

See [Error Codes](#).

4.29.12 Modifying Workspace Bandwidth

Function

Modifies Workspace bandwidth.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2/{project_id}/bandwidths/{bandwidth_id}/update

Table 4-2999 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
bandwidth_id	Yes	String	Workspace bandwidth ID.

Request Parameters

Table 4-3000 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body.

Table 4-3001 Request body parameters

Parameter	Mandatory	Type	Description
bandwidth_name	No	String	Workspace bandwidth name.
bandwidth_size	No	Integer	Workspace bandwidth size.
enterprise_project_id	No	String	Enterprise project ID, which is 0 by default.
charge_mode	No	String	Billing mode. <ul style="list-style-type: none"> • wks_bandwidth: billed by bandwidth • free: free of charge but not supported for yearly/monthly billing • wks_traffic: billed by traffic

Response Parameters

Status code: 200

Table 4-3002 Response body parameters

Parameter	Type	Description
job_id	String	Task ID.

Status code: default

Table 4-3003 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
/v2/0e69423d4400f4a82f67c0059a1e4cc8/bandwidths/0e69423d4400f4a82f67c0059a1e4cc7/update
{
  "bandwidth_size" : 1
}
```

Example Responses

Status code: 200

Response to the request for modifying Workspace bandwidth.

```
{
  "job_id" : "fa9e41e1-1221-47c3-a43c-67a1271e2093"
}
```

Status Codes

Status Code	Description
200	Response to the request for modifying Workspace bandwidth.
default	Default response.

Error Codes

See [Error Codes](#).

4.29.13 Deleting Workspace Bandwidth

Function

Deletes Workspace bandwidth.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

DELETE /v2/{project_id}/bandwidths/{bandwidth_id}

Table 4-3004 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
bandwidth_id	Yes	String	Workspace bandwidth ID.

Request Parameters

Table 4-3005 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body.

Response Parameters

Status code: 200

Table 4-3006 Response body parameters

Parameter	Type	Description
job_id	String	Task ID.

Status code: default

Table 4-3007 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
/v2/0e69423d4400f4a82f67c0059a1e4cc8/bandwidths/0e69423d4400f4a82f67c0059a1e4cc7
```

Example Responses

Status code: 200

Response to the request for deleting Workspace bandwidth.

```
{
  "job_id" : "string"
}
```

Status Codes

Status Code	Description
200	Response to the request for deleting Workspace bandwidth.
default	Default response.

Error Codes

See [Error Codes](#).

4.29.14 Querying Workspace Bandwidth Control

Function

Queries Workspace bandwidth control.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/bandwidths/{bandwidth_id}/control-list

Table 4-3008 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
bandwidth_id	Yes	String	Workspace bandwidth ID.

Table 4-3009 Query Parameters

Parameter	Mandatory	Type	Description
desktop_id	No	String	Desktop ID.
desktop_name	No	String	Desktop name.
user_name	No	String	Users to whom desktops are assigned.
control_mode	No	String	Control method. Options: <ul style="list-style-type: none"> • BLACK: blacklist • WHITE: whitelist
offset	No	Integer	Where the pagination query starts. The value starts from 0 .
limit	No	Integer	Limits the quantity of returned desktops in pagination query. If this parameter is not specified, all records that meet the search criteria are returned.

Request Parameters

Table 4-3010 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-3011 Response body parameters

Parameter	Type	Description
control_mode	String	Control method. <ul style="list-style-type: none"> • BLACK: blacklist control • WHITE: whitelist control
control_list	Array of ControllItem objects	Desktops in control.
total_count	Integer	Total number.

Table 4-3012 ControllItem

Parameter	Type	Description
desktop_id	String	Desktop ID.
desktop_name	String	Desktop name.
desktop_status	String	Desktop status.
pool_id	String	Pool ID.
attach_user_infos	Array of AttachInstancesUserInfo objects	List of users to whom desktops have been assigned.

Table 4-3013 AttachInstancesUserInfo

Parameter	Type	Description
user_id	String	If type is set to USER , enter the user ID. If type is set to GROUP , enter the user group ID. The backend service checks whether the group ID exists.

Parameter	Type	Description
user_name	String	<p>Name of the object assigned with a desktop. If type is set to USER, enter the username. If type is set to GROUP, enter the user group name.</p> <ul style="list-style-type: none"> If type is set to USER, the value is the username of the desktop user. After the desktop is assigned, the user can log in to the desktop. Only letters, digits, hyphens (-), and underscores (_) are allowed. When the domain type is LITE_AD, the value contains 1 to 20 characters starting with a letter. When the domain type is LOCAL_AD, the value contains 1 to 64 characters starting with a letter or digit. A Windows desktop username can contain a maximum of 20 characters, and a Linux desktop username can contain a maximum of 64 characters. The backend service checks whether the username exists. The username cannot be the same as the desktop name. If type is set to GROUP, the value can contain only letters, digits, hyphens (-), and underscores (_).
user_group	String	<p>Specifies the user group to which the desktop user belongs.</p> <ul style="list-style-type: none"> sudo: Linux administrator group. default: default Linux user group. administrators: Windows administrator group. Administrators have full access to the desktop and can make any required changes except for forbidden operations. users: standard Windows user group. Standard users can use most software programs and change system settings that do not affect other users.
type	String	<p>Object type. Options:</p> <ul style="list-style-type: none"> USER: user GROUP: user group

Status code: default**Table 4-3014** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

None

Example Responses**Status code: 200**

Response to the request for querying Workspace bandwidth control.

```
{
  "control_mode": "string",
  "control_list": [ {
    "desktop_id": "string",
    "desktop_name": "string",
    "desktop_status": "string",
    "pool_id": "string",
    "attach_user_infos": [ {
      "user_id": "string",
      "user_name": "string",
      "user_group": "string",
      "type": "USER"
    } ]
  } ],
  "total_count": 0
}
```

Status Codes

Status Code	Description
200	Response to the request for querying Workspace bandwidth control.
default	Default response.

Error Codes

See [Error Codes](#).

4.29.15 Modifying Workspace Bandwidth Control

Function

Modifies Workspace bandwidth control.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT /v2/{project_id}/bandwidths/{bandwidth_id}/control-list

Table 4-3015 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
bandwidth_id	Yes	String	Workspace bandwidth ID.

Request Parameters

Table 4-3016 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	MIME type of the request body.

Table 4-3017 Request body parameters

Parameter	Mandatory	Type	Description
control_mode	No	String	Control method. <ul style="list-style-type: none"> • BLACK: blacklist control • WHITE: whitelist control
add_control_list	No	Array of strings	Desktops to be added.
remove_control_list	No	Array of strings	Desktops to be deleted.

Response Parameters

Status code: 204

Response to the request for modifying Workspace bandwidth control.

Status code: default

Table 4-3018 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorizati-on-message of STS to decrypt the reason.

Example Requests

```
/v2/0e69423d4400f4a82f67c0059a1e4cc8/bandwidths/0e69423d4400f4a82f67c0059a1e4cc7/control-list
{
  "control_mode" : "BLACK",
  "add_control_list" : [ "0e69423d4400f4a82f67c0059a1e4cc7" ]
}
```

Example Responses

None

Status Codes

Status Code	Description
204	Response to the request for modifying Workspace bandwidth control.
default	Default response.

Error Codes

See [Error Codes](#).

4.30 Agency

4.30.1 Enabling Agency

Function

Enables agency.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2/{project_id}/agencies

Table 4-3019 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-3020 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Global token of a user. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 4-3021 Request body parameters

Parameter	Mandatory	Type	Description
scene	No	String	Agency scenario. <ul style="list-style-type: none"> • WORKSPACE: Workspace • CLOUD_GAME: cloud gaming • CLOUD_STORAGE: cloud storage • SCREEN_RECORD: screen recording audit

Response Parameters

Status code: 200

Response to the request for enabling agency.

Status code: 400

Table 4-3022 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404**Table 4-3023** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-3024** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: default**Table 4-3025** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.

Parameter	Type	Description
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

```
{
  "scene" : "WORKSPACE"
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Response to the request for enabling agency.
400	The request cannot be understood by the server due to malformed syntax.
404	No resources found.
500	An internal service error occurred. For details about the error code, see the error code description.
default	Default response.

Error Codes

See [Error Codes](#).

4.30.2 Querying an Agency

Function

Queries agencies.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v2/{project_id}/agencies

Table 4-3026 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-3027 Query Parameters

Parameter	Mandatory	Type	Description
scene	No	String	Agency scenario. <ul style="list-style-type: none"> • WORKSPACE: Workspace • CLOUD_GAME: cloud gaming • CLOUD_STORAGE: cloud storage • SCREEN_RECORD: screen recording audit

Request Parameters

Table 4-3028 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Global token of a user. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-3029 Response body parameters

Parameter	Type	Description
existing_agencies	Array of AgenciesInfo objects	Agency information.

Table 4-3030 AgenciesInfo

Parameter	Type	Description
name	String	Name.
permissions	Array of AgenciesPermissionInfo objects	Agency permission information.

Table 4-3031 AgenciesPermissionInfo

Parameter	Type	Description
system_permission_display_names	Array of strings	Agency permission.
wanted_system_permission_display_names	Array of strings	Agency permission to be granted.

Status code: 400**Table 4-3032** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 404

Table 4-3033 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: 500**Table 4-3034** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Status code: default**Table 4-3035** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error description.
error_detail	String	Error details.
encoded_authorization_message	String	Encrypted detailed reason for rejection. You can call the API decode-authorization-message of STS to decrypt the reason.

Example Requests

None

Example Responses

Status code: 200

Response to the request for querying agencies.

```
{
  "existing_agencies" : [ {
    "name" : "ServiceLinkedAgencyForWorkspace",
    "permissions" : [ {
      "system_permission_display_names" : [ "WorkspaceServiceLinkedAgencyPolicy" ],
      "wanted_system_permission_display_names" : [ ]
    } ]
  } ]
}
```

Status Codes

Status Code	Description
200	Response to the request for querying agencies.
400	The request cannot be understood by the server due to malformed syntax.
404	No resources found.
500	An internal service error occurred. For details about the error code, see the error code description.
default	Default response.

Error Codes

See [Error Codes](#).

4.31 App Center

4.31.1 Generating Access Credential Information

Function

Generates bucket credential information.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1/{project_id}/app-center/buckets/actions/create-credential

Table 4-3036 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-3037 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 4-3038 Request body parameters

Parameter	Mandatory	Type	Description
file_name	Yes	String	Complete file name. Characters such as :^; ~`{}[]<> are not allowed.

Response Parameters

Status code: 200

Table 4-3039 Response body parameters

Parameter	Type	Description
server_end_point	String	Accessed service endpoint.
bucket_name	String	Name of the bucket for storage.

Parameter	Type	Description
object_path	String	OBS object path. Note: path is the complete path of the object in OBS. For example, the bucket has the following directory structure: Bucket: ├─dir1 └─object1.txt └─object2.txt └─object3.txt Path of object 1: dir1/object1.txt Path of object 2: dir1/object2.txt Path of object 3: object3.txt
policy	ObsPolicy object	Access policy.
credential	ObsCredential object	Corresponding credential information.

Table 4-3040 ObsPolicy

Parameter	Type	Description
version	String	Version number.
statement	ObsPolicyStatement object	OBS bucket storage policy.

Table 4-3041 ObsPolicyStatement

Parameter	Type	Description
effect	String	Status: Allow : allowed Deny : disallowed
action	Array of strings	All granted permissions.
resource	Array of strings	Accessible resource.

Table 4-3042 ObsCredential

Parameter	Type	Description
access	String	Access key.
secret	String	Secret key.
security_token	String	Security verification token.

Status code: 400**Table 4-3043** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 401**Table 4-3044** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 403**Table 4-3045** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 404

Table 4-3046 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 405**Table 4-3047** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 500**Table 4-3048** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 503**Table 4-3049** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Example Requests

```
{
  "file_name": "xxx.exe"
}
```


Example Responses

Status code: 200

Response to a successful request.

```
{
  "server_end_point" : "obs.cn-north-xx.myhuaweicloud.com",
  "bucket_name" : "",
  "object_path" : "app-file/xxxx.exe",
  "policy" : {
    "version" : "1.1",
    "statement" : {
      "effect" : "Allow",
      "action" : [ "obs:object:PutObject" ],
      "resource" : [ "obs:*:*:object:file/xxx.exe" ]
    }
  },
  "credential" : {
    "access" : "nvf*****390",
    "secret" : "nvf*****390",
    "security_token" : "nvf*****390"
  }
}
```

Status Codes

Status Code	Description
200	Response to a successful request.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.31.2 Adding and Authorizing Access to a Default Bucket

Function

Adds and authorizes access to a default bucket. If there is no bucket, a bucket is automatically created.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1/{project_id}/app-center/buckets

Table 4-3050 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-3051 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-3052 Response body parameters

Parameter	Type	Description
bucket_name	String	Bucket name.

Status code: 400

Table 4-3053 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.

Parameter	Type	Description
error_msg	String	Error message.

Status code: 401**Table 4-3054** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 403**Table 4-3055** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 404**Table 4-3056** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 405**Table 4-3057** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.

Parameter	Type	Description
error_msg	String	Error message.

Status code: 500

Table 4-3058 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 503

Table 4-3059 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Example Requests

None

Example Responses

Status code: 200

Response to a successful request.

```
{
  "bucket_name" : "app-center-xxxxxx"
}
```

Status Codes

Status Code	Description
200	Response to a successful request.
400	The request cannot be understood by the server due to malformed syntax.

Status Code	Description
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.31.3 Querying Applications by Name in Pagination Mode

Function

Queries applications by name in pagination mode.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v1/{project_id}/app-center/apps

Table 4-3060 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-3061 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Query offset. The default value is 0 .

Parameter	Mandatory	Type	Description
limit	No	Integer	The number of records for each query ranges from 1 to 100. The default value is 10 .
name	No	String	Application name.

Request Parameters

Table 4-3062 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-3063 Response body parameters

Parameter	Type	Description
count	Integer	Total number.
items	Array of Application objects	Applications.

Table 4-3064 Application

Parameter	Type	Description
id	String	Unique ID.
tenant_id	String	Tenant ID.
name	String	Application name.
version	String	Version number.
description	String	Description.

Parameter	Type	Description
authorization_type	String	ALL_USER : all users ASSIGN_USER : authorized users
app_file_store	FileStoreLink object	Application storage information.
app_icon_url	String	Application icon path.
install_type	String	Installation method: QUIET_INSTALL : silent installation Installation command (silent installation command), for example, \${FILE_PATH} /S. UNZIP_INSTALL : installation after decompression Example: unzip \${FILE_PATH} GUI_INSTALL : GUI-based installation If install_type is set to QUIET_INSTALL or UNZIP_INSTALL , install_command cannot be empty. The predefined variable will use the following value: \${FILE_PATH}: local storage path of the application installation package on the desktop
install_command	String	Installation command (silent installation command). Example: \${FILE_PATH} /S. The predefined variable will use the following value: \${FILE_PATH}: local storage path of the application installation package on the desktop
uninstall_command	String	Uninstallation command (silent uninstallation command). Example: msiexec /uninstall \${FILE_PATH} /quiet. The predefined variable will use the following value: \${FILE_PATH}: local storage path of the application installation package on the desktop

Parameter	Type	Description
support_os	String	OS type: <ul style="list-style-type: none"> • Linux • Windows • Other
status	String	Application status: NORMAL : normal FORBIDDEN : forbidden to use
application_source	String	Application source: CUSTOM : uploaded by users SYSTEM : built-in application MARKET : market application
create_time	DateTime	Application creation time.
catalog_id	String	Category ID.
catalog	String	Category name.
install_info	String	Installation information.

Table 4-3065 FileStoreLink

Parameter	Type	Description
store_type	String	Storage method: OBS : OBS bucket storage LINK : external storage. An accessible download URL is used.
bucket_store	BucketStore object	OBS bucket storage.
file_link	String	Complete file download path.

Table 4-3066 BucketStore

Parameter	Type	Description
bucket_name	String	The bucket name is in the format of <i>wks-appcenter-{project_id}</i> . You need to call the bucket authorization API to authorize access to the bucket.

Parameter	Type	Description
bucket_file_path	String	<p>OBS object path.</p> <p>Note: <i>bucket_file_path</i> is the complete path of the object in OBS and cannot start with a slash (/).</p> <p>For example, the bucket has the following directory structure:</p> <p>Bucket:</p> <pre> ├─dir1 ├─object1.txt └─object2.txt └─object3.txt </pre> <p>Path of object 1: dir1/object1.txt</p> <p>Path of object 2: dir1/object2.txt</p> <p>Path of object 3: object3.txt</p>

Status code: 400**Table 4-3067** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 401**Table 4-3068** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 403

Table 4-3069 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 404**Table 4-3070** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 405**Table 4-3071** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 500**Table 4-3072** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 503

Table 4-3073 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Example Requests

None

Example Responses

Status code: 200

Response to a successful request.

```
{
  "count" : 0,
  "items" : [ {
    "id" : "x-xx-xxx",
    "tenant_id" : "xxx-xx-x-xx",
    "name" : "xxx.exe",
    "version" : "v1.1.1",
    "description" : "Application used for testing.",
    "authorization_type" : "ALL_USER",
    "app_file_store" : {
      "store_type" : "OBS",
      "bucket_store" : {
        "bucket_name" : "wks-appcenter-xxxx",
        "bucket_file_path" : "app-file/xxxx.exe"
      }
    },
    "file_link" : "https://host-addresss/xxxx.jpg"
  } ],
  "app_icon_url" : "https://host-addresss/xxxxx",
  "install_type" : "QUIET_INSTALL",
  "install_command" : "${FILE_PATH} /S",
  "uninstall_command" : "msiexec /uninstall ${FILE_PATH} /quiet",
  "support_os" : "Windows",
  "status" : "NORMAL",
  "application_source" : "CUSTOM",
  "create_time" : "2024-12-25T06:56:33.477Z",
  "catalog_id" : 1,
  "catalog" : "Other",
  "install_info" : "Installation information"
} ] }
```

Status Codes

Status Code	Description
200	Response to a successful request.
400	The request cannot be understood by the server due to malformed syntax.

Status Code	Description
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.31.4 Adding an Application

Function

Adds an application.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1/{project_id}/app-center/apps

Table 4-3074 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-3075 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 4-3076 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Application name. Requirements: 1. Cannot contain only spaces. 2. Cannot contain characters like :^; ~`{}[]<>. 3. Contains 1 to 128 characters.
version	Yes	String	Version number.
description	Yes	String	Description.
authorization_type	Yes	String	ALL_USER : all users ASSIGN_USER : authorized users
app_file_store	Yes	FileStoreLink object	The file storage path can be OBS or an external URL. store_type specifies the configuration that takes effect. Either bucket_store or file_link must be set.

Parameter	Mandatory	Type	Description
app_icon_url	No	String	<p>Image path. An accessible URL or DataURIScheme can be used.</p> <p>Accessible URL: https://abc.a.ab.a/abc/ab.jpg</p> <p>DataURIScheme: data:image/png;base64,iVBORw0KGgoA AAANS. When dataURLStream is used, a PNG image of about 64 KB can be used and a string can contain up to 87,500 characters.</p>
install_type	Yes	String	<p>Installation method:</p> <p>QUIET_INSTALL: silent installation</p> <p>Installation command (silent installation command), for example, <code>\${FILE_PATH} /S</code>.</p> <p>UNZIP_INSTALL: installation after decompression</p> <p>Example: <code>unzip \${FILE_PATH}</code></p> <p>GUI_INSTALL: GUI-based installation</p> <p>If install_type is set to QUIET_INSTALL or UNZIP_INSTALL, install_command cannot be empty.</p> <p>The predefined variable will use the following value:</p> <p><code>\${FILE_PATH}</code>: local storage path of the application installation package on the desktop</p>
install_command	No	String	<p>Installation command (silent installation command).</p> <p>Example: <code>\${FILE_PATH} /S</code>.</p> <p>The predefined variable will use the following value:</p> <p><code>\${FILE_PATH}</code>: local storage path of the application installation package on the desktop</p>

Parameter	Mandatory	Type	Description
uninstall_command	No	String	Uninstallation command (silent uninstallation command). Example: msiexec /uninstall \${FILE_PATH} /quiet. The predefined variable will use the following value: \${FILE_PATH}: local storage path of the application installation package on the desktop
support_os	Yes	String	OS type: <ul style="list-style-type: none"> • Linux • Windows • Other
catalog_id	Yes	String	Category ID.
install_info	No	String	Installation information.

Table 4-3077 FileStoreLink

Parameter	Mandatory	Type	Description
store_type	Yes	String	Storage method: OBS : OBS bucket storage LINK : external storage. An accessible download URL is used.
bucket_store	No	BucketStore object	OBS bucket storage.
file_link	No	String	Complete file download path.

Table 4-3078 BucketStore

Parameter	Mandatory	Type	Description
bucket_name	No	String	The bucket name is in the format of wks-appcenter- <i>{project_id}</i> . You need to call the bucket authorization API to authorize access to the bucket.

Parameter	Mandatory	Type	Description
bucket_file_path	No	String	<p>OBS object path.</p> <p>Note: <i>bucket_file_path</i> is the complete path of the object in OBS and cannot start with a slash (/).</p> <p>For example, the bucket has the following directory structure:</p> <p>Bucket:</p> <pre> ├─dir1 ├─object1.txt └─object2.txt └─object3.txt </pre> <p>Path of object 1: dir1/object1.txt</p> <p>Path of object 2: dir1/object2.txt</p> <p>Path of object 3: object3.txt</p>

Response Parameters

Status code: 200

Table 4-3079 Response body parameters

Parameter	Type	Description
id	String	Unique ID.
tenant_id	String	Tenant ID.
name	String	Application name.
version	String	Version number.
description	String	Description.
authorization_type	String	ALL_USER : all users ASSIGN_USER : authorized users
app_file_store	FileStoreLink object	Application storage information.
app_icon_url	String	Application icon path.

Parameter	Type	Description
install_type	String	<p>Installation method:</p> <p>QUIET_INSTALL: silent installation Installation command (silent installation command), for example, <code>{FILE_PATH} /S</code>.</p> <p>UNZIP_INSTALL: installation after decompression Example: <code>unzip {FILE_PATH}</code></p> <p>GUI_INSTALL: GUI-based installation If install_type is set to QUIET_INSTALL or UNZIP_INSTALL, install_command cannot be empty. The predefined variable will use the following value: <code>{FILE_PATH}</code>: local storage path of the application installation package on the desktop</p>
install_command	String	<p>Installation command (silent installation command). Example: <code>{FILE_PATH} /S</code>.</p> <p>The predefined variable will use the following value: <code>{FILE_PATH}</code>: local storage path of the application installation package on the desktop</p>
uninstall_command	String	<p>Uninstallation command (silent uninstallation command). Example: <code>msiexec /uninstall {FILE_PATH} /quiet</code>.</p> <p>The predefined variable will use the following value: <code>{FILE_PATH}</code>: local storage path of the application installation package on the desktop</p>
support_os	String	<p>OS type:</p> <ul style="list-style-type: none"> • Linux • Windows • Other
status	String	<p>Application status:</p> <p>NORMAL: normal</p> <p>FORBIDDEN: forbidden to use</p>

Parameter	Type	Description
application_source	String	Application source: CUSTOM : uploaded by users SYSTEM : built-in application MARKET : market application
create_time	DateTime	Application creation time.
catalog_id	String	Category ID.
catalog	String	Category name.
install_info	String	Installation information.

Table 4-3080 FileStoreLink

Parameter	Type	Description
store_type	String	Storage method: OBS : OBS bucket storage LINK : external storage. An accessible download URL is used.
bucket_store	BucketStore object	OBS bucket storage.
file_link	String	Complete file download path.

Table 4-3081 BucketStore

Parameter	Type	Description
bucket_name	String	The bucket name is in the format of <i>wks-appcenter-{project_id}</i> . You need to call the bucket authorization API to authorize access to the bucket.

Parameter	Type	Description
bucket_file_path	String	<p>OBS object path.</p> <p>Note: <i>bucket_file_path</i> is the complete path of the object in OBS and cannot start with a slash (/).</p> <p>For example, the bucket has the following directory structure:</p> <p>Bucket:</p> <pre> ├─dir1 ├─object1.txt └─object2.txt └─object3.txt </pre> <p>Path of object 1: dir1/object1.txt Path of object 2: dir1/object2.txt Path of object 3: object3.txt</p>

Status code: 400**Table 4-3082** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 401**Table 4-3083** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 403

Table 4-3084 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 404**Table 4-3085** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 405**Table 4-3086** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 500**Table 4-3087** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 503

Table 4-3088 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Example Requests

```
{
  "name" : "notepad++.exe",
  "version" : "v1.1.1",
  "description" : "xxx",
  "authorization_type" : "ALL_USER",
  "app_file_store" : {
    "store_type" : "OBS",
    "bucket_store" : {
      "bucket_name" : "wks-appcenter-xxxx",
      "bucket_file_path" : "app-file/xxxx.exe"
    },
    "file_link" : "https://host-addresss/xxxxx.jpg"
  },
  "app_icon_url" : "data:image/png;base64,iVBORw0KGgoAAAANSUHEUgAAAAUAAAFCAyAAACnbybIAAAAEIEQVQI12P4//8 /w38GIAXDIBKE0DHxgljNBAAO9TXL0Y4OHwAAAAABJRU5ErkJggg==",
  "install_type" : "UNZIP_INSTALL",
  "install_command" : "${FILE_PATH} /S",
  "uninstall_command" : "msiexec /uninstall ${FILE_PATH} /quiet",
  "support_os" : "Windows",
  "catalog_id" : "xxxx-xxx-xxxx",
  "install_info" : "xxxx-xxx-xxxx"
}
```

Example Responses

Status code: 200

Response to a successful request.

```
{
  "id" : "x-xx-xxx",
  "tenant_id" : "xxx-xx-x-xx",
  "name" : "xxx.exe",
  "version" : "v1.1.1",
  "description" : "Application used for testing.",
  "authorization_type" : "ALL_USER",
  "app_file_store" : {
    "store_type" : "OBS",
    "bucket_store" : {
      "bucket_name" : "wks-appcenter-xxxx",
      "bucket_file_path" : "app-file/xxxx.exe"
    },
    "file_link" : "https://host-addresss/xxxxx.jpg"
  },
  "app_icon_url" : "https://host-addresss/xxxxx",
  "install_type" : "QUIET_INSTALL",
  "install_command" : "${FILE_PATH} /S",
  "uninstall_command" : "msiexec /uninstall ${FILE_PATH} /quiet",
  "support_os" : "Windows",
  "status" : "NORMAL",
  "application_source" : "CUSTOM",
  "create_time" : "2024-12-25T06:56:58.622Z",
}
```

```

"catalog_id" : 1,
"catalog" : "Other",
"install_info" : "Installation information"
}

```

Status Codes

Status Code	Description
200	Response to a successful request.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.31.5 Modifying an Application

Function

Modifies an application.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PATCH /v1/{project_id}/app-center/apps/{app_id}

Table 4-3089 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
app_id	Yes	String	Application ID.

Request Parameters

Table 4-3090 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 4-3091 Request body parameters

Parameter	Mandatory	Type	Description
name	No	String	Application name. Requirements: 1. Contains visible characters or spaces but cannot contain only spaces. 2. Contains 1 to 128 characters.
version	No	String	Version number.
description	No	String	Description.
app_file_store	No	FileStoreLink object	The file storage path can be OBS or an external URL. store_type specifies the configuration that takes effect. Either bucket_store or file_link must be set.
app_icon_url	No	String	Image path. An accessible URL or DataURIScheme can be used. Accessible URL: https://abc.a.ab.a/abc/ab.jpg DataURIScheme: data:image/png;base64,iVBORw0KGgoAAANS. When dataURLStream is used, a PNG image of about x KB can be used.

Parameter	Mandatory	Type	Description
install_type	No	String	<p>Installation method:</p> <p>QUIET_INSTALL: silent installation</p> <p>Installation command (silent installation command), for example, <code>\${FILE_PATH} /S</code>.</p> <p>UNZIP_INSTALL: installation after decompression</p> <p>Example: <code>unzip \${FILE_PATH}</code></p> <p>GUI_INSTALL: GUI-based installation</p> <p>If install_type is set to QUIET_INSTALL or UNZIP_INSTALL, install_command cannot be empty.</p> <p>The predefined variable will use the following value:</p> <p><code>\${FILE_PATH}</code>: local storage path of the application installation package on the desktop</p>
authorization_type	No	String	<p>ALL_USER: all users</p> <p>ASSIGN_USER: authorized users</p>
install_command	No	String	<p>Installation command (silent installation command).</p> <p>Example: <code>\${FILE_PATH} /S</code>.</p> <p>The predefined variable will use the following value:</p> <p><code>\${FILE_PATH}</code>: local storage path of the application installation package on the desktop</p>

Parameter	Mandatory	Type	Description
uninstall_command	No	String	Uninstallation command (silent uninstallation command). Example: msiexec /uninstall \${FILE_PATH} /quiet. The predefined variable will use the following value: \${FILE_PATH}: local storage path of the application installation package on the desktop
support_os	No	String	OS type: <ul style="list-style-type: none"> • Linux • Windows • Other
catalog_id	No	String	Category ID.
status	No	String	Application status: NORMAL : normal FORBIDDEN : forbidden to use
install_info	No	String	Installation information.

Table 4-3092 FileStoreLink

Parameter	Mandatory	Type	Description
store_type	Yes	String	Storage method: OBS : OBS bucket storage LINK : external storage. An accessible download URL is used.
bucket_store	No	BucketStore object	OBS bucket storage.
file_link	No	String	Complete file download path.

Table 4-3093 BucketStore

Parameter	Mandatory	Type	Description
bucket_name	No	String	The bucket name is in the format of wks-appcenter- <i>{project_id}</i> . You need to call the bucket authorization API to authorize access to the bucket.
bucket_file_path	No	String	OBS object path. Note: <i>bucket_file_path</i> is the complete path of the object in OBS and cannot start with a slash (/). For example, the bucket has the following directory structure: Bucket: ├─dir1 │ └─object1.txt │ └─object2.txt └─object3.txt Path of object 1: dir1/object1.txt Path of object 2: dir1/object2.txt Path of object 3: object3.txt

Response Parameters

Status code: 200

Table 4-3094 Response body parameters

Parameter	Type	Description
id	String	Unique ID.
tenant_id	String	Tenant ID.
name	String	Application name.
version	String	Version number.
description	String	Description.

Parameter	Type	Description
authorization_type	String	ALL_USER : all users ASSIGN_USER : authorized users
app_file_store	FileStoreLink object	Application storage information.
app_icon_url	String	Application icon path.
install_type	String	Installation method: QUIET_INSTALL : silent installation Installation command (silent installation command), for example, \${FILE_PATH} /S. UNZIP_INSTALL : installation after decompression Example: unzip \${FILE_PATH} GUI_INSTALL : GUI-based installation If install_type is set to QUIET_INSTALL or UNZIP_INSTALL , install_command cannot be empty. The predefined variable will use the following value: \${FILE_PATH}: local storage path of the application installation package on the desktop
install_command	String	Installation command (silent installation command). Example: \${FILE_PATH} /S. The predefined variable will use the following value: \${FILE_PATH}: local storage path of the application installation package on the desktop
uninstall_command	String	Uninstallation command (silent uninstallation command). Example: msiexec /uninstall \${FILE_PATH} /quiet. The predefined variable will use the following value: \${FILE_PATH}: local storage path of the application installation package on the desktop

Parameter	Type	Description
support_os	String	OS type: <ul style="list-style-type: none"> • Linux • Windows • Other
status	String	Application status: NORMAL : normal FORBIDDEN : forbidden to use
application_source	String	Application source: CUSTOM : uploaded by users SYSTEM : built-in application MARKET : market application
create_time	DateTime	Application creation time.
catalog_id	String	Category ID.
catalog	String	Category name.
install_info	String	Installation information.

Table 4-3095 FileStoreLink

Parameter	Type	Description
store_type	String	Storage method: OBS : OBS bucket storage LINK : external storage. An accessible download URL is used.
bucket_store	BucketStore object	OBS bucket storage.
file_link	String	Complete file download path.

Table 4-3096 BucketStore

Parameter	Type	Description
bucket_name	String	The bucket name is in the format of <i>wks-appcenter-{project_id}</i> . You need to call the bucket authorization API to authorize access to the bucket.

Parameter	Type	Description
bucket_file_path	String	<p>OBS object path.</p> <p>Note: <i>bucket_file_path</i> is the complete path of the object in OBS and cannot start with a slash (/).</p> <p>For example, the bucket has the following directory structure:</p> <p>Bucket:</p> <pre> ├─dir1 ├─object1.txt └─object2.txt └─object3.txt </pre> <p>Path of object 1: dir1/object1.txt</p> <p>Path of object 2: dir1/object2.txt</p> <p>Path of object 3: object3.txt</p>

Status code: 400**Table 4-3097** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 401**Table 4-3098** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 403

Table 4-3099 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 404**Table 4-3100** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 405**Table 4-3101** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 500**Table 4-3102** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 503

Table 4-3103 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Example Requests

```
{
  "name" : "notepad++.exe",
  "version" : "v1.1.1",
  "description" : "xxx",
  "app_file_store" : {
    "store_type" : "OBS",
    "bucket_store" : {
      "bucket_name" : "wks-appcenter-xxxx",
      "bucket_file_path" : "app-file/xxxx.exe"
    }
  },
  "file_link" : "https://host-addresss/xxxxx.jpg"
},
"app_icon_url" : "data:image/
png;base64,iVBORw0KGgoAAAANSUhEUgAAAAUAAAFCAyAAACNbybIAAAAEHEIEQVQI12P4//8 /
w38GIAXDIBKE0DHxgljNBAAO9TXL0Y4OHwAAAAABJRU5ErkJggg==",
"install_type" : "QUIET_INSTALL",
"authorization_type" : "ALL_USER",
"install_command" : "${FILE_PATH} /S",
"uninstall_command" : "msiexec /uninstall ${FILE_PATH} /quiet",
"support_os" : "Windows",
"catalog_id" : "xxx-xxx-xxxx",
"status" : "NORMAL",
"install_info" : "xxx-xxx-xxxx"
}
```

Example Responses

Status code: 200

Response to a successful request.

```
{
  "id" : "x-xx-xxx",
  "tenant_id" : "xxx-xx-x-xx",
  "name" : "xxx.exe",
  "version" : "v1.1.1",
  "description" : "Application used for testing.",
  "authorization_type" : "ALL_USER",
  "app_file_store" : {
    "store_type" : "OBS",
    "bucket_store" : {
      "bucket_name" : "wks-appcenter-xxxx",
      "bucket_file_path" : "app-file/xxxx.exe"
    }
  },
  "file_link" : "https://host-addresss/xxxxx.jpg"
},
"app_icon_url" : "https://host-addresss/xxxxx",
"install_type" : "QUIET_INSTALL",
"install_command" : "${FILE_PATH} /S",
"uninstall_command" : "msiexec /uninstall ${FILE_PATH} /quiet",
"support_os" : "Windows",
"status" : "NORMAL",
"application_source" : "CUSTOM",
}
```

```

"create_time" : "2024-12-25T06:58:19.765Z",
"catalog_id" : 1,
"catalog" : "Other",
"install_info" : "Installation information"
}

```

Status Codes

Status Code	Description
200	Response to a successful request.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.31.6 Deleting an Application

Function

Deletes an application.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

DELETE /v1/{project_id}/app-center/apps/{app_id}

Table 4-3104 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Parameter	Mandatory	Type	Description
app_id	Yes	String	Application ID.

Table 4-3105 Query Parameters

Parameter	Mandatory	Type	Description
reserve_obs_file	No	String	Whether to retain OBS bucket files when deleting an application. The default value is false . true : retains OBS bucket files when deleting an application false : deletes OBS bucket files when deleting an application

Request Parameters

Table 4-3106 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Response to a successful request.

Status code: 400

Table 4-3107 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 401**Table 4-3108** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 403**Table 4-3109** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 404**Table 4-3110** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 405**Table 4-3111** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 500

Table 4-3112 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 503**Table 4-3113** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	Response to a successful request.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.31.7 Automatically Installing an Application

Function

Automatically installs an application (silent installation or installation after decompression).

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1/{project_id}/app-center/apps/{app_id}/actions/auto-install

Table 4-3114 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
app_id	Yes	String	Application ID.

Request Parameters

Table 4-3115 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 4-3116 Request body parameters

Parameter	Mandatory	Type	Description
install_command	No	String	Installation command (silent installation command). Example: \${FILE_PATH} /S The predefined variable will use the following value: \${FILE_PATH}: local storage path of the application installation package on the desktop
uninstall_command	No	String	Uninstallation command (silent uninstallation command). Example: msiexec /uninstall \${FILE_PATH} /quiet. The predefined variable will use the following value: \${FILE_PATH}: local storage path of the application installation package on the desktop
users	No	Array of AccountInfo objects	Specified user who performs installation.

Table 4-3117 AccountInfo

Parameter	Mandatory	Type	Description
account	Yes	String	Account. The account must be in the format of account (group).
domain	No	String	Domain name (mandatory for user groups. If this parameter is left blank, the default value local.com is used.)
account_type	Yes	String	Account type: SIMPLE : common user USER_GROUP : user group
platform_type	No	String	Platform type: <ul style="list-style-type: none"> ● AD: AD domain ● LOCAL: LiteAS

Response Parameters

Status code: 200

Response to a successful request.

Status code: 400

Table 4-3118 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 401

Table 4-3119 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 403

Table 4-3120 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 404

Table 4-3121 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 405**Table 4-3122** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 500**Table 4-3123** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 503**Table 4-3124** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Example Requests

```
{
  "install_command" : "${FILE_PATH} /S",
  "uninstall_command" : "msiexec /uninstall ${FILE_PATH} /quiet",
  "users" : [ {
    "account" : "zhangsan*****@test.com",
    "domain" : "siv.**.huawei.com",
    "account_type" : "SIMPLE",
    "platform_type" : "AD"
  } ]
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Response to a successful request.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.31.8 Querying Application Authorization

Function

Queries application authorization.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v1/{project_id}/app-center/apps/{app_id}/authorizations

Table 4-3125 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
app_id	Yes	String	Application ID.

Table 4-3126 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Query offset. The default value is 0 .
limit	No	Integer	The number of records for each query ranges from 1 to 100. The default value is 10 .
name	No	String	Username/User group name.
target_type	No	String	Type: SIMPLE : common user USER_GROUP : user group

Request Parameters

Table 4-3127 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-3128 Response body parameters

Parameter	Type	Description
count	Integer	Total number.
items	Array of AccountInfo objects	Authorization record.

Table 4-3129 AccountInfo

Parameter	Type	Description
account	String	Account. The account must be in the format of account (group).
domain	String	Domain name (mandatory for user groups. If this parameter is left blank, the default value local.com is used.)
account_type	String	Account type: SIMPLE : common user USER_GROUP : user group
platform_type	String	Platform type: <ul style="list-style-type: none"> • AD: AD domain • LOCAL: LiteAS

Status code: 400**Table 4-3130** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 401**Table 4-3131** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 403

Table 4-3132 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 404**Table 4-3133** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 405**Table 4-3134** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 500**Table 4-3135** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 503

Table 4-3136 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Example Requests

None

Example Responses

Status code: 200

Response to a successful request.

```
{
  "count" : 0,
  "items" : [ {
    "account" : "zhangsan*****@test.com",
    "domain" : "siv.**.huawei.com",
    "account_type" : "SIMPLE",
    "platform_type" : "AD"
  } ]
}
```

Status Codes

Status Code	Description
200	Response to a successful request.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.31.9 Assigning Application Authorization

Function

Assigns application authorization.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1/{project_id}/app-center/apps/{app_id}/actions/assign-authorizations

Table 4-3137 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
app_id	Yes	String	Application ID.

Request Parameters

Table 4-3138 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 4-3139 Request body parameters

Parameter	Mandatory	Type	Description
authorization_type	Yes	String	ALL_USER : all users ASSIGN_USER : authorized users
users	No	Array of AccountInfo objects	New authorized users. 0 to 100 users are allowed for each request.

Parameter	Mandatory	Type	Description
del_users	No	Array of AccountInfo objects	Users whose authorization is canceled. 0 to 100 users are allowed for each request.

Table 4-3140 AccountInfo

Parameter	Mandatory	Type	Description
account	Yes	String	Account. The account must be in the format of account (group).
domain	No	String	Domain name (mandatory for user groups. If this parameter is left blank, the default value local.com is used.)
account_type	Yes	String	Account type: SIMPLE : common user USER_GROUP : user group
platform_type	No	String	Platform type: <ul style="list-style-type: none"> • AD: AD domain • LOCAL: LiteAS

Response Parameters

Status code: 200

Response to a successful request.

Status code: 400

Table 4-3141 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 401

Table 4-3142 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 403**Table 4-3143** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 404**Table 4-3144** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 405**Table 4-3145** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 500

Table 4-3146 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 503**Table 4-3147** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Example Requests

```
{
  "authorization_type": "ALL_USER",
  "users": [ {
    "account": "zhangsan*****@test.com",
    "domain": "siv.**.huawei.com",
    "account_type": "SIMPLE",
    "platform_type": "AD"
  } ],
  "del_users": [ {
    "account": "zhangsan*****@test.com",
    "domain": "siv.**.huawei.com",
    "account_type": "SIMPLE",
    "platform_type": "AD"
  } ]
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Response to a successful request.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.

Status Code	Description
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.31.10 Deleting Applications in Batches

Function

Deletes applications in batches.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1/{project_id}/app-center/apps/actions/batch-delete

Table 4-3148 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-3149 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 4-3150 Request body parameters

Parameter	Mandatory	Type	Description
items	Yes	Array of strings	Unique ID list. 1 to 50 unique IDs are allowed for each request.
reserve_obs_file	No	Boolean	Whether to retain OBS bucket files. If this parameter is set to false (default), OBS bucket files will be deleted when an application is deleted. true : OBS bucket files are retained. No operation is performed. false : OBS bucket files will be deleted when an application is deleted.

Response Parameters

Status code: 200

Response to a successful request.

Status code: 400

Table 4-3151 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 401

Table 4-3152 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 403**Table 4-3153** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 404**Table 4-3154** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 405**Table 4-3155** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 500**Table 4-3156** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 503

Table 4-3157 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Example Requests

```
{
  "items" : [ "3f791197-d166-4c8e-81e4-38c40ffc1989", "62f48b59-0ebb-4b1e-ad35-f64948a0591b" ],
  "reserve_obs_file" : false
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Response to a successful request.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.31.11 Setting Invisibility for Applications in Batches

Function

Sets invisibility for applications in batches.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1/{project_id}/app-center/apps/actions/batch-disable

Table 4-3158 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-3159 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 4-3160 Request body parameters

Parameter	Mandatory	Type	Description
items	Yes	Array of strings	Unique ID list. 1 to 50 unique IDs are allowed for each request.

Response Parameters

Status code: 200

Response to a successful request.

Status code: 400

Table 4-3161 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 401**Table 4-3162** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 403**Table 4-3163** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 404**Table 4-3164** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 405

Table 4-3165 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 500**Table 4-3166** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 503**Table 4-3167** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Example Requests

```
{
  "items" : [ "3f791197-d166-4c8e-81e4-38c40ffc1989", "62f48b59-0ebb-4b1e-ad35-f64948a0591b" ]
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Response to a successful request.
400	The request cannot be understood by the server due to malformed syntax.

Status Code	Description
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.31.12 Setting Visibility for Applications in Batches

Function

Sets visibility for applications in batches.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1/{project_id}/app-center/apps/actions/batch-enable

Table 4-3168 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-3169 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 4-3170 Request body parameters

Parameter	Mandatory	Type	Description
items	Yes	Array of strings	Unique ID list. 1 to 50 unique IDs are allowed for each request.

Response Parameters

Status code: 200

Response to a successful request.

Status code: 400

Table 4-3171 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 401

Table 4-3172 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 403**Table 4-3173** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 404**Table 4-3174** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 405**Table 4-3175** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 500**Table 4-3176** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 503

Table 4-3177 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Example Requests

```
{
  "items" : [ "3f791197-d166-4c8e-81e4-38c40ffc1989", "62f48b59-0ebb-4b1e-ad35-f64948a0591b" ]
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Response to a successful request.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.31.13 Assigning Application Authorization in Batches

Function

Assigns application authorization in batches.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1/{project_id}/app-center/apps/actions/batch-assign-authorization

Table 4-3178 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-3179 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 4-3180 Request body parameters

Parameter	Mandatory	Type	Description
app_ids	Yes	Array of strings	Unique ID list. 1 to 20 unique IDs are allowed for each request.
authorization_type	Yes	String	ALL_USER : all users ASSIGN_USER : authorized users
users	No	Array of AccountInfo objects	New authorized users. 0 to 100 users are allowed for each request.
del_users	No	Array of AccountInfo objects	Users whose authorization is canceled. 0 to 100 users are allowed for each request.

Table 4-3181 AccountInfo

Parameter	Mandatory	Type	Description
account	Yes	String	Account. The account must be in the format of account (group).
domain	No	String	Domain name (mandatory for user groups. If this parameter is left blank, the default value local.com is used.)
account_type	Yes	String	Account type: SIMPLE : common user USER_GROUP : user group
platform_type	No	String	Platform type: <ul style="list-style-type: none"> • AD: AD domain • LOCAL: LiteAS

Response Parameters

Status code: 200

Response to a successful request.

Status code: 400

Table 4-3182 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 401

Table 4-3183 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 403

Table 4-3184 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 404**Table 4-3185** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 405**Table 4-3186** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 500**Table 4-3187** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 503

Table 4-3188 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Example Requests

```
{
  "app_ids" : [ "3f791197-d166-4c8e-81e4-38c40ffc1989", "62f48b59-0ebb-4b1e-ad35-f64948a0591b" ],
  "authorization_type" : "ALL_USER",
  "users" : [ {
    "account" : "zhangsan*****@test.com",
    "domain" : "siv.**.huawei.com",
    "account_type" : "SIMPLE",
    "platform_type" : "AD"
  } ],
  "del_users" : [ {
    "account" : "zhangsan*****@test.com",
    "domain" : "siv.**.huawei.com",
    "account_type" : "SIMPLE",
    "platform_type" : "AD"
  } ]
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Response to a successful request.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.31.14 Automatically Installing Applications in Batches

Function

Automatically installs applications in batches (silent installation or installation after decompression).

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1/{project_id}/app-center/apps/actions/batch-auto-install

Table 4-3189 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-3190 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 4-3191 Request body parameters

Parameter	Mandatory	Type	Description
app_ids	Yes	Array of strings	Unique ID list. 1 to 50 unique IDs are allowed for each request.

Parameter	Mandatory	Type	Description
assign_scope	Yes	String	ALL_USER : all users ASSIGN_USER : authorized users
users	No	Array of AccountInfo objects	User list. 1 to 50 users are allowed for each request.

Table 4-3192 AccountInfo

Parameter	Mandatory	Type	Description
account	Yes	String	Account. The account must be in the format of account (group).
domain	No	String	Domain name (mandatory for user groups. If this parameter is left blank, the default value local.com is used.)
account_type	Yes	String	Account type: SIMPLE : common user USER_GROUP : user group
platform_type	No	String	Platform type: <ul style="list-style-type: none"> • AD: AD domain • LOCAL: LiteAS

Response Parameters

Status code: 200

Response to a successful request.

Status code: 400

Table 4-3193 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 401

Table 4-3194 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 403**Table 4-3195** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 404**Table 4-3196** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 405**Table 4-3197** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 500

Table 4-3198 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 503

Table 4-3199 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Example Requests

```
{
  "app_ids" : [ "3f791197-d166-4c8e-81e4-38c40ffc1989", "62f48b59-0ebb-4b1e-ad35-f64948a0591b" ],
  "assign_scope" : "ALL_USER",
  "users" : [ {
    "account" : "zhangsan*****@test.com",
    "domain" : "siv.**.huawei.com",
    "account_type" : "SIMPLE",
    "platform_type" : "AD"
  } ]
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Response to a successful request.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.

Status Code	Description
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.31.15 Querying Application Categories

Function

Queries application categories.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v1/{project_id}/app-center/app-catalogs

Table 4-3200 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-3201 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-3202 Response body parameters

Parameter	Type	Description
items	Array of Catalog objects	Application category information.

Table 4-3203 Catalog

Parameter	Type	Description
id	String	Unique ID.
catalog_zh	String	Category description, in Chinese.
catalog_en	String	Category description, in English.

Status code: 400

Table 4-3204 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 401

Table 4-3205 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 403

Table 4-3206 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 404**Table 4-3207** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 405**Table 4-3208** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 500**Table 4-3209** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 503

Table 4-3210 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Example Requests

None

Example Responses

Status code: 200

Response to a successful request.

```
{
  "items" : [ {
    "id" : 1254678,
    "catalog_zh" : "Category description.",
    "catalog_en" : "Description of the category information."
  } ]
}
```

Status Codes

Status Code	Description
200	Response to a successful request.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.31.16 Querying Application Installation Jobs

Function

Queries application installation jobs.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v1/{project_id}/app-center/jobs

Table 4-3211 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-3212 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Query offset. The default value is 0 .
limit	No	Integer	The number of records for each query ranges from 1 to 100. The default value is 10 .
instance_id	No	String	Instance ID.
app_id	No	String	Application ID.
target	No	String	User who installs the instance.
job_status	No	String	Task status. INIT : being initialized WAITING : waiting for installation to complete SUCCESS : successful FAIL : failed

Request Parameters

Table 4-3213 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-3214 Response body parameters

Parameter	Type	Description
count	Integer	Total number.
items	Array of AppInstallJob objects	Application installation tasks.

Table 4-3215 AppInstallJob

Parameter	Type	Description
id	String	Task ID.
app_id	String	Application ID.
app_name	String	Application name.
app_version	String	Application version.
instance_id	String	Instance ID (resource ID of a Workspace or Application Streaming instance).
instance_sid	String	Instance SID.
instance_name	String	Instance name.
operator	String	Operator.
target	String	Target user.

Parameter	Type	Description
job_status	String	Instance type: INIT : being initialized WAITING : waiting for installation to complete SUCCESS : successful FAIL : failed
error_message	String	Task failure cause.
create_time	DateTime	Creation time.
update_time	DateTime	Update time.

Status code: 400**Table 4-3216** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 401**Table 4-3217** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 403**Table 4-3218** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 404**Table 4-3219** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 405**Table 4-3220** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 500**Table 4-3221** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 503**Table 4-3222** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Example Requests

None

Example Responses

Status code: 200

Response to a successful request.

```
{
  "count" : 0,
  "items" : [ {
    "id" : "xxxxx-xxx-xx",
    "app_id" : "xxx-xxx-xxx-xxx",
    "app_name" : "Workspace.exe",
    "app_version" : "v1.1.1",
    "instance_id" : "xxx-xxxx-xxxx",
    "instance_sid" : "xxxx-xxx-xxxx",
    "instance_name" : "APS-XXXXXX",
    "operator" : "zhangsan**@huawei.com",
    "target" : "lisi**@huawei.com",
    "job_status" : "INIT",
    "error_message" : "",
    "create_time" : "2022-03-07T10:40:43.858Z",
    "update_time" : "2022-03-07T10:40:43.858Z"
  } ]
}
```

Status Codes

Status Code	Description
200	Response to a successful request.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.31.17 Deleting Jobs in Batches

Function

Deletes jobs in batches.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1/{project_id}/app-center/jobs/actions/batch-delete

Table 4-3223 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-3224 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 4-3225 Request body parameters

Parameter	Mandatory	Type	Description
items	Yes	Array of strings	Unique ID list. 1 to 50 unique IDs are allowed for each request.

Response Parameters

Status code: 200

Response to a successful request.

Status code: 400

Table 4-3226 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 401**Table 4-3227** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 403**Table 4-3228** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 404**Table 4-3229** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 405

Table 4-3230 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 500**Table 4-3231** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 503**Table 4-3232** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Example Requests

```
{
  "items" : [ "3f791197-d166-4c8e-81e4-38c40ffc1989", "62f48b59-0ebb-4b1e-ad35-f64948a0591b" ]
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Response to a successful request.
400	The request cannot be understood by the server due to malformed syntax.

Status Code	Description
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.31.18 Retrying a Failed Job

Function

Retries a failed job. (Retrying a job of types other than failed will cause an error to be returned.)

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1/{project_id}/app-center/jobs/actions/retry

Table 4-3233 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-3234 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 4-3235 Request body parameters

Parameter	Mandatory	Type	Description
items	Yes	Array of strings	Unique ID list. 1 to 50 unique IDs are allowed for each request.

Response Parameters

Status code: 200

Response to a successful request.

Status code: 400

Table 4-3236 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 401

Table 4-3237 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 403**Table 4-3238** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 404**Table 4-3239** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 405**Table 4-3240** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 500**Table 4-3241** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 503

Table 4-3242 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Example Requests

```
{
  "items" : [ "3f791197-d166-4c8e-81e4-38c40ffc1989", "62f48b59-0ebb-4b1e-ad35-f64948a0591b" ]
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Response to a successful request.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.32 Application Management

4.32.1 Creating an Application Rule

Function

Creates an application rule.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1/{project_id}/app-center/app-rules

Table 4-3243 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-3244 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 4-3245 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Rule name: 1. Contains visible characters or spaces but cannot contain only spaces. 2. Contains 1 to 64 characters.

Parameter	Mandatory	Type	Description
description	No	String	Rule description: 1. Contains visible characters or spaces but cannot contain only spaces. 2. Contains 0 to 128 characters.
rule	Yes	Rule object	Rule information.

Table 4-3246 Rule

Parameter	Mandatory	Type	Description
scope	Yes	String	Application scope of a rule: PRODUCT: product PATH: path
product_rule	No	ProductRule object	Product rule information. The process name, product name, and publisher must match. If the value is empty or *, any match is allowed. Example: Publisher Name: * Product Name: Huawei Process Name: * A product whose name is Huawei is considered a match.
path_rule	No	PathRule object	Path rule information, which restricts the corresponding path and subpath.

Table 4-3247 ProductRule

Parameter	Mandatory	Type	Description
identify_condition	No	String	Identification condition.

Parameter	Mandatory	Type	Description
publisher	No	String	Publisher name: <ol style="list-style-type: none"> 1. Contains visible characters or spaces but cannot contain only spaces. 2. Contains 0 to 1,024 characters. 3. If the value is empty or *, any match is supported.
product_name	No	String	Product name: <ol style="list-style-type: none"> 1. Contains visible characters or spaces but cannot contain only spaces. 2. Contains 0 to 128 characters. 3. If the value is empty or *, any match is supported.
process_name	No	String	Process name: <ol style="list-style-type: none"> 1. Contains visible characters or spaces but cannot contain only spaces. 2. Contains 0 to 128 characters. 3. If the value is empty or *, any match is supported.
support_os	No	String	OS type. This field exists only for built-in rules. <ol style="list-style-type: none"> 1. Contains visible characters or spaces but cannot contain only spaces. 2. Contains 0 to 128 characters.
version	No	String	Version: <ol style="list-style-type: none"> 1. Contains visible characters or spaces but cannot contain only spaces. 2. Contains 0 to 128 characters. 3. If the value is empty or *, any match is supported.

Parameter	Mandatory	Type	Description
product_version	No	String	Product version: 1. Contains visible characters. 2. Contains 0 to 128 characters.

Table 4-3248 PathRule

Parameter	Mandatory	Type	Description
path	No	String	Complete path: 1. Contains visible characters or spaces but cannot contain only spaces. 2. Contains 0 to 512 characters.

Response Parameters

Status code: 200

Table 4-3249 Response body parameters

Parameter	Type	Description
id	String	Rule ID.
name	String	Rule name.
description	String	Rule description.
rule	Rule object	Rule information.
rule_source	String	Rule source.
create_time	DateTime	Creation time.
update_time	DateTime	Update time.

Table 4-3250 Rule

Parameter	Type	Description
scope	String	Application scope of a rule: PRODUCT: product PATH: path

Parameter	Type	Description
product_rule	ProductRule object	Product rule information. The process name, product name, and publisher must match. If the value is empty or *, any match is allowed. Example: Publisher Name: * Product Name: Huawei Process Name: * A product whose name is Huawei is considered a match.
path_rule	PathRule object	Path rule information, which restricts the corresponding path and subpath.

Table 4-3251 ProductRule

Parameter	Type	Description
identify_condition	String	Identification condition.
publisher	String	Publisher name: 1. Contains visible characters or spaces but cannot contain only spaces. 2. Contains 0 to 1,024 characters. 3. If the value is empty or *, any match is supported.
product_name	String	Product name: 1. Contains visible characters or spaces but cannot contain only spaces. 2. Contains 0 to 128 characters. 3. If the value is empty or *, any match is supported.
process_name	String	Process name: 1. Contains visible characters or spaces but cannot contain only spaces. 2. Contains 0 to 128 characters. 3. If the value is empty or *, any match is supported.

Parameter	Type	Description
support_os	String	OS type. This field exists only for built-in rules. 1. Contains visible characters or spaces but cannot contain only spaces. 2. Contains 0 to 128 characters.
version	String	Version: 1. Contains visible characters or spaces but cannot contain only spaces. 2. Contains 0 to 128 characters. 3. If the value is empty or *, any match is supported.
product_version	String	Product version: 1. Contains visible characters. 2. Contains 0 to 128 characters.

Table 4-3252 PathRule

Parameter	Type	Description
path	String	Complete path: 1. Contains visible characters or spaces but cannot contain only spaces. 2. Contains 0 to 512 characters.

Status code: 400**Table 4-3253** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 401

Table 4-3254 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 403**Table 4-3255** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 404**Table 4-3256** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 405**Table 4-3257** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 500

Table 4-3258 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 503**Table 4-3259** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Example Requests

```
{
  "name": "Huawei",
  "description": "test",
  "rule": {
    "scope": "PRODUCT",
    "product_rule": {
      "identify_condition": "productName",
      "publisher": null,
      "product_name": "HUAWEI",
      "process_name": "Huawei.exe",
      "support_os": "Windows",
      "version": "1.0.0.1",
      "product_version": "1.0.0.1"
    },
    "path_rule": {
      "path": "D:\\\\tmp"
    }
  }
}
```

Example Responses

Status code: 200

Response to a successful request.

```
{
  "id": "string",
  "name": "string",
  "description": "string",
  "rule": {
    "scope": "PRODUCT",
    "product_rule": {
      "identify_condition": "productName",
      "publisher": null,
      "product_name": "HUAWEI",
      "process_name": "Huawei.exe",

```

```

"support_os" : "Windows",
"version" : "1.0.0.1",
"product_version" : "1.0.0.1"
},
"path_rule" : {
  "path" : "D:\\\\tmp"
}
},
"rule_source" : "string",
"create_time" : "2024-12-25T07:03:30.065Z",
"update_time" : "2024-12-25T07:03:30.065Z"
}

```

Status Codes

Status Code	Description
200	Response to a successful request.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.32.2 Querying Application Rules

Function

Queries application rules.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v1/{project_id}/app-center/app-rules

Table 4-3260 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-3261 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Query offset. The default value is 0 .
limit	No	Integer	The number of records for each query ranges from 1 to 100. The default value is 10 .
name	No	String	Application rule name.

Request Parameters

Table 4-3262 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-3263 Response body parameters

Parameter	Type	Description
count	Integer	Total number.
items	Array of AppRule objects	Rules.

Table 4-3264 AppRule

Parameter	Type	Description
id	String	Rule ID.
name	String	Rule name.
description	String	Rule description.
rule	Rule object	Rule information.
rule_source	String	Rule source.
create_time	DateTime	Creation time.
update_time	DateTime	Update time.

Table 4-3265 Rule

Parameter	Type	Description
scope	String	Application scope of a rule: PRODUCT: product PATH: path
product_rule	ProductRule object	Product rule information. The process name, product name, and publisher must match. If the value is empty or *, any match is allowed. Example: Publisher Name: * Product Name: Huawei Process Name: * A product whose name is Huawei is considered a match.
path_rule	PathRule object	Path rule information, which restricts the corresponding path and subpath.

Table 4-3266 ProductRule

Parameter	Type	Description
identify_condition	String	Identification condition.

Parameter	Type	Description
publisher	String	<p>Publisher name:</p> <ol style="list-style-type: none"> 1. Contains visible characters or spaces but cannot contain only spaces. 2. Contains 0 to 1,024 characters. 3. If the value is empty or *, any match is supported.
product_name	String	<p>Product name:</p> <ol style="list-style-type: none"> 1. Contains visible characters or spaces but cannot contain only spaces. 2. Contains 0 to 128 characters. 3. If the value is empty or *, any match is supported.
process_name	String	<p>Process name:</p> <ol style="list-style-type: none"> 1. Contains visible characters or spaces but cannot contain only spaces. 2. Contains 0 to 128 characters. 3. If the value is empty or *, any match is supported.
support_os	String	<p>OS type. This field exists only for built-in rules.</p> <ol style="list-style-type: none"> 1. Contains visible characters or spaces but cannot contain only spaces. 2. Contains 0 to 128 characters.
version	String	<p>Version:</p> <ol style="list-style-type: none"> 1. Contains visible characters or spaces but cannot contain only spaces. 2. Contains 0 to 128 characters. 3. If the value is empty or *, any match is supported.
product_version	String	<p>Product version:</p> <ol style="list-style-type: none"> 1. Contains visible characters. 2. Contains 0 to 128 characters.

Table 4-3267 PathRule

Parameter	Type	Description
path	String	Complete path: 1. Contains visible characters or spaces but cannot contain only spaces. 2. Contains 0 to 512 characters.

Status code: 400**Table 4-3268** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 401**Table 4-3269** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 403**Table 4-3270** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 404

Table 4-3271 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 405**Table 4-3272** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 500**Table 4-3273** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 503**Table 4-3274** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Example Requests

None

Example Responses

Status code: 200

Response to a successful request.

```
{
  "count" : 0,
  "items" : [ {
    "id" : "string",
    "name" : "string",
    "description" : "string",
    "rule" : {
      "scope" : "PRODUCT",
      "product_rule" : {
        "identify_condition" : "productName",
        "publisher" : null,
        "product_name" : "HUAWEI",
        "process_name" : "Huawei.exe",
        "support_os" : "Windows",
        "version" : "1.0.0.1",
        "product_version" : "1.0.0.1"
      },
      "path_rule" : {
        "path" : "D:\\\\tmp"
      }
    },
    "rule_source" : "string",
    "create_time" : "2024-12-25T07:03:42.629Z",
    "update_time" : "2024-12-25T07:03:42.629Z"
  } ]
}
```

Status Codes

Status Code	Description
200	Response to a successful request.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.32.3 Modifying an Application Rule

Function

Modifies an application rule.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PATCH /v1/{project_id}/app-center/app-rules/{rule_id}

Table 4-3275 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
rule_id	Yes	String	Rule ID.

Request Parameters

Table 4-3276 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 4-3277 Request body parameters

Parameter	Mandatory	Type	Description
name	No	String	Rule name: 1. Contains visible characters or spaces but cannot contain only spaces. 2. Contains 1 to 64 characters.

Parameter	Mandatory	Type	Description
description	No	String	Rule description: 1. Contains visible characters or spaces but cannot contain only spaces. 2. Contains 0 to 128 characters.
rule	No	Rule object	Rule information.

Table 4-3278 Rule

Parameter	Mandatory	Type	Description
scope	Yes	String	Application scope of a rule: PRODUCT: product PATH: path
product_rule	No	ProductRule object	Product rule information. The process name, product name, and publisher must match. If the value is empty or *, any match is allowed. Example: Publisher Name: * Product Name: Huawei Process Name: * A product whose name is Huawei is considered a match.
path_rule	No	PathRule object	Path rule information, which restricts the corresponding path and subpath.

Table 4-3279 ProductRule

Parameter	Mandatory	Type	Description
identify_condition	No	String	Identification condition.

Parameter	Mandatory	Type	Description
publisher	No	String	Publisher name: <ol style="list-style-type: none"> 1. Contains visible characters or spaces but cannot contain only spaces. 2. Contains 0 to 1,024 characters. 3. If the value is empty or *, any match is supported.
product_name	No	String	Product name: <ol style="list-style-type: none"> 1. Contains visible characters or spaces but cannot contain only spaces. 2. Contains 0 to 128 characters. 3. If the value is empty or *, any match is supported.
process_name	No	String	Process name: <ol style="list-style-type: none"> 1. Contains visible characters or spaces but cannot contain only spaces. 2. Contains 0 to 128 characters. 3. If the value is empty or *, any match is supported.
support_os	No	String	OS type. This field exists only for built-in rules. <ol style="list-style-type: none"> 1. Contains visible characters or spaces but cannot contain only spaces. 2. Contains 0 to 128 characters.
version	No	String	Version: <ol style="list-style-type: none"> 1. Contains visible characters or spaces but cannot contain only spaces. 2. Contains 0 to 128 characters. 3. If the value is empty or *, any match is supported.

Parameter	Mandatory	Type	Description
product_version	No	String	Product version: 1. Contains visible characters. 2. Contains 0 to 128 characters.

Table 4-3280 PathRule

Parameter	Mandatory	Type	Description
path	No	String	Complete path: 1. Contains visible characters or spaces but cannot contain only spaces. 2. Contains 0 to 512 characters.

Response Parameters

Status code: 200

Table 4-3281 Response body parameters

Parameter	Type	Description
id	String	Rule ID.
name	String	Rule name.
description	String	Rule description.
rule	Rule object	Rule information.
rule_source	String	Rule source.
create_time	DateTime	Creation time.
update_time	DateTime	Update time.

Table 4-3282 Rule

Parameter	Type	Description
scope	String	Application scope of a rule: PRODUCT: product PATH: path

Parameter	Type	Description
product_rule	ProductRule object	Product rule information. The process name, product name, and publisher must match. If the value is empty or *, any match is allowed. Example: Publisher Name: * Product Name: Huawei Process Name: * A product whose name is Huawei is considered a match.
path_rule	PathRule object	Path rule information, which restricts the corresponding path and subpath.

Table 4-3283 ProductRule

Parameter	Type	Description
identify_condition	String	Identification condition.
publisher	String	Publisher name: 1. Contains visible characters or spaces but cannot contain only spaces. 2. Contains 0 to 1,024 characters. 3. If the value is empty or *, any match is supported.
product_name	String	Product name: 1. Contains visible characters or spaces but cannot contain only spaces. 2. Contains 0 to 128 characters. 3. If the value is empty or *, any match is supported.
process_name	String	Process name: 1. Contains visible characters or spaces but cannot contain only spaces. 2. Contains 0 to 128 characters. 3. If the value is empty or *, any match is supported.

Parameter	Type	Description
support_os	String	OS type. This field exists only for built-in rules. 1. Contains visible characters or spaces but cannot contain only spaces. 2. Contains 0 to 128 characters.
version	String	Version: 1. Contains visible characters or spaces but cannot contain only spaces. 2. Contains 0 to 128 characters. 3. If the value is empty or *, any match is supported.
product_version	String	Product version: 1. Contains visible characters. 2. Contains 0 to 128 characters.

Table 4-3284 PathRule

Parameter	Type	Description
path	String	Complete path: 1. Contains visible characters or spaces but cannot contain only spaces. 2. Contains 0 to 512 characters.

Status code: 400**Table 4-3285** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 401

Table 4-3286 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 403**Table 4-3287** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 404**Table 4-3288** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 405**Table 4-3289** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 500

Table 4-3290 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 503**Table 4-3291** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Example Requests

```
{
  "name" : "string",
  "description" : "string",
  "rule" : {
    "scope" : "PRODUCT",
    "product_rule" : {
      "identify_condition" : "productName",
      "publisher" : null,
      "product_name" : "HUAWEI",
      "process_name" : "Huawei.exe",
      "support_os" : "Windows",
      "version" : "1.0.0.1",
      "product_version" : "1.0.0.1"
    },
    "path_rule" : {
      "path" : "D:\\\\tmp"
    }
  }
}
```

Example Responses**Status code: 200**

Response to a successful request.

```
{
  "id" : "string",
  "name" : "string",
  "description" : "string",
  "rule" : { },
  "rule_source" : "string",
  "create_time" : "2025-05-24T10:42:12.338Z",
  "update_time" : "2025-05-24T10:42:12.338Z"
}
```

Status Codes

Status Code	Description
200	Response to a successful request.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.32.4 Deleting an Application Rule

Function

Deletes an application rule.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

DELETE /v1/{project_id}/app-center/app-rules/{rule_id}

Table 4-3292 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
rule_id	Yes	String	Rule ID.

Request Parameters

Table 4-3293 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Response to a successful request.

Status code: 400

Table 4-3294 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 401

Table 4-3295 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 403

Table 4-3296 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 404**Table 4-3297** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 405**Table 4-3298** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 500**Table 4-3299** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 503

Table 4-3300 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	Response to a successful request.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.32.5 Deleting Rules in Batches

Function

Deletes rules in batches.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1/{project_id}/app-center/app-rules/batch-delete

Table 4-3301 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-3302 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 4-3303 Request body parameters

Parameter	Mandatory	Type	Description
items	Yes	Array of strings	Unique ID list. 1 to 50 unique IDs are allowed for each request.

Response Parameters

Status code: 200

Response to a successful request.

Status code: 400

Table 4-3304 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 401**Table 4-3305** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 403**Table 4-3306** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 404**Table 4-3307** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 405

Table 4-3308 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 500**Table 4-3309** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 503**Table 4-3310** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Example Requests

```
{
  "items" : [ "3f791197-d166-4c8e-81e4-38c40ffc1989", "62f48b59-0ebb-4b1e-ad35-f64948a0591b" ]
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Response to a successful request.
400	The request cannot be understood by the server due to malformed syntax.

Status Code	Description
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.32.6 Enabling Rule-based Management

Function

Enables rule-based management.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1/{project_id}/app-center/app-rules/actions/enable-rule-restriction

Table 4-3311 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-3312 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Response to a successful request.

Status code: 400

Table 4-3313 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 401

Table 4-3314 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 403

Table 4-3315 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 404**Table 4-3316** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 405**Table 4-3317** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 500**Table 4-3318** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 503

Table 4-3319 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	Response to a successful request.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.32.7 Disabling Rule-based Management

Function

Disables rule-based management.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1/{project_id}/app-center/app-rules/actions/disable-rule-restriction

Table 4-3320 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-3321 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Response to a successful request.

Status code: 400

Table 4-3322 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 401

Table 4-3323 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 403**Table 4-3324** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 404**Table 4-3325** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 405**Table 4-3326** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 500

Table 4-3327 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 503**Table 4-3328** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	Response to a successful request.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.32.8 Querying Control Rules

Function

Queries control rules.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v1/{project_id}/app-center/app-rules/actions/get-rule-restriction

Table 4-3329 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-3330 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-3331 Response body parameters

Parameter	Type	Description
app_restrict_rule_switch	Boolean	Whether to enable application control. The options are false (disabled) and true (enabled).
app_control_mode	Integer	Application control method. 0 : Prohibits applications in the list from running.
app_periodic_switch	Boolean	Whether to enable periodic monitoring. The options are false (disabled) and true (enabled).
app_periodic_interval	Integer	Interval for periodic monitoring, in minutes.
app_force_kill_proc_switch	Boolean	Whether to force kill an application. The options are false (disabled) and true (enabled).

Status code: 400**Table 4-3332** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 401**Table 4-3333** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 403

Table 4-3334 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 404**Table 4-3335** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 405**Table 4-3336** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 500**Table 4-3337** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 503

Table 4-3338 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Example Requests

None

Example Responses

Status code: 200

Operation successful.

```
{
  "app_restrict_rule_switch" : false,
  "app_control_mode" : 0,
  "app_periodic_switch" : false,
  "app_periodic_interval" : 5,
  "app_force_kill_proc_switch" : true
}
```

Status Codes

Status Code	Description
200	Operation successful.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details about the error code, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.32.9 Setting a Control Rule

Function

Sets a control rule.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1/{project_id}/app-center/app-rules/actions/set-rule-restriction

Table 4-3339 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-3340 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 4-3341 Request body parameters

Parameter	Mandatory	Type	Description
app_restrict_rule_switch	Yes	Boolean	Whether to enable application control. The options are false (disabled) and true (enabled).
app_control_mode	No	Integer	Application control method. 0 : Prohibits applications in the list from running.

Parameter	Mandatory	Type	Description
app_periodic_switch	No	Boolean	Whether to enable periodic monitoring. The options are false (disabled) and true (enabled).
app_periodic_interval	No	Integer	Interval for periodic monitoring, in minutes.
app_force_kill_proc_switch	No	Boolean	Whether to force kill an application. The options are false (disabled) and true (enabled).

Response Parameters

Status code: 200

Operation successful.

Status code: 400

Table 4-3342 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 401

Table 4-3343 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 403

Table 4-3344 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 404**Table 4-3345** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 405**Table 4-3346** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 500**Table 4-3347** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 503

Table 4-3348 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Example Requests

```
{
  "app_restrict_rule_switch" : true,
  "app_control_mode" : 0,
  "app_periodic_switch" : false
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Operation successful.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details about the error code, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.32.10 Adding a Management Rule

Function

Adds a management rule.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1/{project_id}/app-center/app-restricted-rules

Table 4-3349 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-3350 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 4-3351 Request body parameters

Parameter	Mandatory	Type	Description
items	Yes	Array of strings	Unique ID list. 1 to 50 unique IDs are allowed for each request.

Response Parameters

Status code: 200

Response to a successful request.

Status code: 400

Table 4-3352 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 401**Table 4-3353** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 403**Table 4-3354** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 404**Table 4-3355** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 405

Table 4-3356 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 500**Table 4-3357** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 503**Table 4-3358** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Example Requests

```
{
  "items" : [ "3f791197-d166-4c8e-81e4-38c40ffc1989", "62f48b59-0ebb-4b1e-ad35-f64948a0591b" ]
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Response to a successful request.
400	The request cannot be understood by the server due to malformed syntax.

Status Code	Description
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.32.11 Querying Management Rules

Function

Queries management rules.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v1/{project_id}/app-center/app-restricted-rules

Table 4-3359 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-3360 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Query offset. The default value is 0 .

Parameter	Mandatory	Type	Description
limit	No	Integer	The number of records for each query ranges from 1 to 100. The default value is 10 .
name	No	String	Application rule name.

Request Parameters

Table 4-3361 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 4-3362 Response body parameters

Parameter	Type	Description
count	Integer	Total number.
items	Array of AppRule objects	Rules.

Table 4-3363 AppRule

Parameter	Type	Description
id	String	Rule ID.
name	String	Rule name.
description	String	Rule description.
rule	Rule object	Rule information.
rule_source	String	Rule source.
create_time	DateTime	Creation time.

Parameter	Type	Description
update_time	DateTime	Update time.

Table 4-3364 Rule

Parameter	Type	Description
scope	String	Application scope of a rule: PRODUCT: product PATH: path
product_rule	ProductRule object	Product rule information. The process name, product name, and publisher must match. If the value is empty or *, any match is allowed. Example: Publisher Name: * Product Name: Huawei Process Name: * A product whose name is Huawei is considered a match.
path_rule	PathRule object	Path rule information, which restricts the corresponding path and subpath.

Table 4-3365 ProductRule

Parameter	Type	Description
identify_condition	String	Identification condition.
publisher	String	Publisher name: 1. Contains visible characters or spaces but cannot contain only spaces. 2. Contains 0 to 1,024 characters. 3. If the value is empty or *, any match is supported.

Parameter	Type	Description
product_name	String	Product name: <ol style="list-style-type: none"> 1. Contains visible characters or spaces but cannot contain only spaces. 2. Contains 0 to 128 characters. 3. If the value is empty or *, any match is supported.
process_name	String	Process name: <ol style="list-style-type: none"> 1. Contains visible characters or spaces but cannot contain only spaces. 2. Contains 0 to 128 characters. 3. If the value is empty or *, any match is supported.
support_os	String	OS type. This field exists only for built-in rules. <ol style="list-style-type: none"> 1. Contains visible characters or spaces but cannot contain only spaces. 2. Contains 0 to 128 characters.
version	String	Version: <ol style="list-style-type: none"> 1. Contains visible characters or spaces but cannot contain only spaces. 2. Contains 0 to 128 characters. 3. If the value is empty or *, any match is supported.
product_version	String	Product version: <ol style="list-style-type: none"> 1. Contains visible characters. 2. Contains 0 to 128 characters.

Table 4-3366 PathRule

Parameter	Type	Description
path	String	Complete path: <ol style="list-style-type: none"> 1. Contains visible characters or spaces but cannot contain only spaces. 2. Contains 0 to 512 characters.

Status code: 400**Table 4-3367** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 401**Table 4-3368** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 403**Table 4-3369** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 404**Table 4-3370** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 405

Table 4-3371 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 500**Table 4-3372** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 503**Table 4-3373** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Example Requests

None

Example Responses**Status code: 200**

Response to a successful request.

```
{
  "count" : 0,
  "items" : [{
    "id" : "string",
    "name" : "string",
    "description" : "string",
    "rule" : {
      "scope" : "PRODUCT",
      "product_rule" : {
        "identify_condition" : "productName",
        "publisher" : null,
        "product_name" : "HUAWEI",
```

```

    "process_name": "Huawei.exe",
    "support_os": "Windows",
    "version": "1.0.0.1",
    "product_version": "1.0.0.1"
  },
  "path_rule": {
    "path": "D:\\\\tmp"
  }
},
"rule_source": "string",
"create_time": "2024-12-25T07:04:55.891Z",
"update_time": "2024-12-25T07:04:55.891Z"
}]
}

```

Status Codes

Status Code	Description
200	Response to a successful request.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

4.32.12 Deleting Control Rules in Batches

Function

Deletes control rules in batches.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1/{project_id}/app-center/app-restricted-rules/actions/batch-delete

Table 4-3374 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-3375 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 4-3376 Request body parameters

Parameter	Mandatory	Type	Description
items	Yes	Array of strings	Unique ID list. 1 to 50 unique IDs are allowed for each request.

Response Parameters

Status code: 200

Response to a successful request.

Status code: 400

Table 4-3377 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 401

Table 4-3378 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 403**Table 4-3379** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 404**Table 4-3380** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 405**Table 4-3381** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 500

Table 4-3382 Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Status code: 503**Table 4-3383** Response body parameters

Parameter	Type	Description
error_code	String	Error code, which is returned upon failure.
error_msg	String	Error message.

Example Requests

```
{
  "items" : [ "3f791197-d166-4c8e-81e4-38c40ffc1989", "62f48b59-0ebb-4b1e-ad35-f64948a0591b" ]
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Response to a successful request.
400	The request cannot be understood by the server due to malformed syntax.
401	Authentication failed.
403	No operation permissions.
404	No resources found.
405	The method specified in the request is not allowed.
500	An internal service error occurred. For details, see the error code description.
503	Service unavailable.

Error Codes

See [Error Codes](#).

A Appendix

A.1 Status Code

[Table A-1](#) describes the status codes.

Table A-1 Status codes

Status Code	Status	Description
200	OK	Successful
201	Created	The request has been fulfilled and resulted in a new resource being created.
202	Accepted	The request has been accepted for processing, but the processing has not been completed.
203	Non-Authoritative Information	The request has been fulfilled.
204	NoContent	The server has successfully processed the request, but does not return any response. The status code is returned in response to an HTTP OPTIONS request.
205	Reset Content	The server successfully processed the request, but is not returning any content.
206	Partial Content	The server has successfully processed a part of the GET request.
300	Multiple Choices	There are multiple choices for a requested resource. For example, this code could be used to present a list of resource characteristics and addresses from which the client such as a browser may choose.

Status Code	Status	Description
301	Moved Permanently	This and all future requests have been permanently moved to the given URI indicated in this response.
302	Found	The requested resource has been temporarily moved.
303	See Other	Retrieve another URL. Use GET and POST requests to view the information.
304	Not Modified	The requested resource has not been modified. When the server returns this status code, no resource is returned.
305	Use Proxy	The requested resource is available only through a proxy.
306	Unused	This HTTP status code is no longer used.
400	BadRequest	Invalid request. The client should modify the request instead of re-initiating it.
401	Unauthorized	The status code is returned after the client provides the authentication information, indicating that the authentication information is incorrect or invalid.
402	Payment Required	Reserved request.
403	Forbidden	Request rejected. The server has received the request and understood it, but refuses to respond to it. The client should not repeat the request without modifications.
404	NotFound	The requested resource cannot be found. The client should modify the request instead of re-initiating it.
405	MethodNotAllowed	The request contains one or more methods not supported for the resource. The client should modify the request instead of re-initiating it.
406	Not Acceptable	The server cannot implement the request based on the content characteristics of the request.

Status Code	Status	Description
407	Proxy Authentication Required	This code is similar to 401, but indicates that the client must first authenticate itself with the proxy.
408	Request Time-out	The client does not produce a request within the time that the server was prepared to wait. The client may re-initiate the request without modifications at any time later.
409	Conflict	The request cannot be processed due to a conflict. This status code indicates that the resource that the client attempts to create already exists, or the request fails to be processed because of the update of the conflict request.
410	Gone	The requested resource has been deleted permanently and will not be available again. This status code indicates that the requested resource has been deleted permanently.
411	Length Required	The server refused to process the request because the request does not specify the length of its content.
412	Precondition Failed	The server does not meet one of the preconditions that the requester puts on the request.
413	Request Entity Too Large	The server refuses to process a request because the request is too large. The server may disable the connection to prevent the client from sending requests consecutively. If the server temporarily cannot process the request, the response will contain a Retry-After request header field.
414	Request-URI Too Large	The request URI is too long for the server to process.
415	Unsupported Media Type	The server cannot process the media format in the request.
416	Requested range not satisfiable	The requested range is invalid.
417	Expectation Failed	The server fails to meet the requirements of the Expect request header field.
422	UnprocessableEntity	The request is well-formed but is unable to respond due to semantic errors.

Status Code	Status	Description
429	TooManyRequests	The client sends too many requests to the server within a given time, exceeding the client's access frequency limit or beyond the server's processing capability. In this case, the client should re-initiate requests after the time specified in the Retry-After response header field expires.
500	InternalServerError	The server is able to receive the request but unable to understand it.
501	Not Implemented	The server does not support the requested function, and therefore cannot implement the request.
502	Bad Gateway	The server acting as a gateway or proxy receives an invalid response from a remote server.
503	ServiceUnavailable	The requested service is invalid. The client should modify the request instead of re-initiating it.
504	ServerTimeout	The request cannot be fulfilled within a given amount of time. The response will reach the client only if the request carries a timeout parameter.
505	HTTP Version not supported	The server does not support the HTTP protocol version used in the request.

A.2 Workspace Error Codes

If an error code starting with APIGW is returned after you call an API, rectify the fault by referring to the instructions provided in [API Gateway Error Codes](#).

Status Code	Error Codes	Error Message	Description	Solution
400	WKS.0001	The request message input by the interface is empty.	The request message from the interface is empty.	The request message from the interface is empty.

Status Code	Error Codes	Error Message	Description	Solution
200	WKS.00010109	The custom name of desktop is empty.	The user-defined computer name is empty. Please configure the computer name and try again.	Please contact the administrator.
200	WKS.00010110	Desktops cannot obtain valid IP addresses.	The computer cannot obtain a valid IP address. Please check whether the DHCP component and network environment are normal.	The computer cannot obtain a valid IP address. Please check whether the DHCP component and network environment are normal.
200	WKS.00010306	Only the desktop from the OpenStack platform support setting whether to enable user self-service backup management function.	Only FusionSphere OpenStack desktops support self-service backup management.	Check whether the OpenStack scenario is used.
200	WKS.00010315	The desktop does not support setting whether to enable user self-service backup management function.		

Status Code	Error Codes	Error Message	Description	Solution
200	WKS.0001032 1	Failed to set user self-service backup management function identification in the WKSDesktops manager database. Please try again later.		
200	WKS.0106	Insufficient quota.	Insufficient quota	Contact the administrator to increase the quota.
200	WKS.0402	The desktop is being deleted and cannot be modified.	Deleting a computer: At least one computer in the computer sequence to be deleted is invalid (cannot be deleted).	Check whether the status of the computer that fails to be deleted is valid.
200	WKS.0404	Failed to modify desktop attributes.	Failed to modify desktop attributes.	Please contact the administrator.
200	WKS.0405	Failed to restart the desktop that is not running. Please ensure that the desktop is running, and try again.	The desktop must be powered on.	Ensure that the desktop is powered on and try again.
200	WKS.0417	The desktop name is duplicated.	The desktop name already exists.	Change the name

Status Code	Error Codes	Error Message	Description	Solution
400	WKS.0000	The format of the parameters entered through the interface is invalid.	Change the name	Check whether the parameter format is valid.
400	WKS.0001	The format of the parameters entered through the interface is invalid. {0} is invalid.	The format of the parameter entered by the interface is invalid.	Check whether the parameter format is valid.
400	WKS.00010000	The platform type of the image is not supported.	The platform type of the image is not supported.	The image type must be Windows or Linux.
400	WKS.00010013	Failed to query vm in openStack. Please check whether the openStack environment or openStack configuration is correct.	Failed to query the computers on OpenStack. Check whether the OpenStack environment or OpenStack configuration is correct.	Please contact the administrator.
400	WKS.00010037	The tenant not open service.	The tenant has not enabled the service.	Enable the service and try again.
400	WKS.00010040	The token role does not have IMS Administrator permission.		
400	WKS.00010041	The token role does not have BSS Administrator permission.		

Status Code	Error Codes	Error Message	Description	Solution
400	WKS.00010139	The desktop name already exists in the domain.	Enable the service and try again.	Change the desktop name and try again.
400	WKS.0006	Failed to invoke VPC interface.	Change the desktop name and try again.	Retry or cancel the registration again. If the problem persists, contact the administrator.
400	WKS.0418	The desktop does not exist.	The desktop does not exist.	Check whether the desktop ID is correct.
400	WKS.0426	The computer name suffix has reached the maximum value[{}].Please check windows AD and specify computer name.	Check whether the desktop ID is correct.	Please specify a desktop name
400	WKS.0505	Invalid parameter action.		
400	WKS.0508	The value of offset cannot be smaller than 0.	The value of offset is less than 0.	The value of offset cannot be less than 0.
400	WKS.0509	The value of limit must be greater than 0 and smaller than 1000.	The limit must be greater than 0 and less than 1000.	The limit must be greater than 0 and less than 1000.
400	WKS.0560	The value of matches cannot be left empty.		
400	WKS.0563	The number of tag keys cannot be 0 or greater than 10.		

Status Code	Error Codes	Error Message	Description	Solution
400	WKS.0564	Invalid tag.		
400	WKS.0565	Duplicate tag keys.		
400	WKS.0566	A maximum of 10 tags can be added to each desktop.		
400	WKS.0568	The resource does not exist or is a resource of another project.	The resource_id does not exist or is the resource_id of another tenant.	Check whether resource_id is correct.
400	WKS.0569	The tag key does not exist.	The tag key does not exist.	Check whether the tag key parameter is correct.
400	WKS.0631	The entered email address is different from the registered email address. Please enter the correct one.	The entered email address is different from the email address of the corresponding user. Please check whether the email address is correct.	Check whether the email address is correct.
401	WKS.00010025	The project id in the request URL does not match the token.	The project_id and IAM token do not match.	Check whether the token matches the project ID and obtain the token again.
401	WKS.5100	X-Auth-Token is invalid in the request header.	Invalid IAM token.	Obtain the IAM token again and try again.
403	WKS.00010024	No authority.	No API access permission	Please contact the administrator.

Status Code	Error Codes	Error Message	Description	Solution
403	WKS.00010033	Project in xx is failed to call this interface.	The interface cannot be invoked when the project is in the xx state.	Please contact the administrator.
403	WKS.00010036	The interface current not support xx.		
403	WKS.0570	The token role does not have the permission to perform this operation.	The role of the token is not authorized to perform this operation.	Check whether the token is correct or contact the administrator.
404	WKS.00010031	The resource does not found. The resource type is {0} and resource id [{1}].	The resource cannot be found.	Please try again or contact the administrator
404	WKS.0010	No resources found in the system.	The system has no resources.	Check whether the resource ID is correct.
409	WKS.00010032	Operation conflict. The desktop current instance status is [{0}] and deny operation [{1}], resource id [{2}].	Operation conflict	Check whether the conflict is caused by other operations on the current desktop. After other operations are complete, try again.
409	WKS.00010100	Failed to start the desktop.	Failed to start the computer	Please try again or contact the administrator
409	WKS.00010101	Failed to start some desktops.	Failed to start/wake up some computers	Please try again or contact the administrator

Status Code	Error Codes	Error Message	Description	Solution
409	WKS.0001010 2	Failed to stop the desktop.	Failed to shut down the computer	Please try again or contact the administrator
409	WKS.0001010 3	Failed to stop some desktops.	An exception occurs when some computers are stopped.	Please try again or contact the administrator
409	WKS.0001010 4	Failed to reboot the desktop.	Failed to restart the computer.	Please try again or contact the administrator
409	WKS.0001010 5	Failed to reboot some desktops.	An exception occurs when some computers are restarted.	Please try again or contact the administrator
409	WKS.0001010 7	Failed to start the desktop that is running. Please ensure that the desktop is stopped, and try again.	The computer cannot be started due to its current running status. Please ensure that the computer is stopped and try again.	Ensure that the desktop status is Stopped.
409	WKS.0001010 8	Failed to stop the desktop that is not running. Please ensure that the desktop is running, and try again.	Failed to stop the computer because the computer status is abnormal.	Ensure that the desktop is running.
409	WKS.0016	Cannot operate the desktop in maintenance mode or the desktop id is invalid.	The desktop is in maintenance mode or the desktop information is incorrect.	Check whether the desktop is in maintenance mode.

Status Code	Error Codes	Error Message	Description	Solution
412	WKS.00010115	Only the desktop has been join windows AD can use rejoin domain function.	Only computers that have been added to a Windows AD domain can be added to the domain again.	Check whether the desktop has been added to a domain.
412	WKS.00010116	Only Windows desktop now support to rejoin domain.	Only Windows computers support domain re-adding.	Check whether the desktop runs the Windows operating system.
500	WKS.00010001	Failed to invoke WKSManger interface.		
500	WKS.00010003	Failed to invoke WKSDesktops Controller interface.		
500	WKS.00010010	Failed to call WKS ITA interface.		
500	WKS.00010011	Failed to query vm attach info.	Failed to query the computer association information.	Please contact the administrator.
500	WKS.00010020	Failed to apply for Workspace service when creating desktops, please contact on-call.	Failed to enable the WKSManger service.	Failed to enable the WKSManger service.

Status Code	Error Codes	Error Message	Description	Solution
500	WKS.00010028	Failed to invoke LiteAS interface, please check whether the AD server is normal.	Failed to access the LiteAs service. Check whether the AD server is normal.	Please contact the administrator.
500	WKS.00010029	Failed to invoke NAT interface.	Failed to invoke the NAT service.	Please try again or contact the administrator
500	WKS.00010030	Failed to invoke WKSEngine interface.		
500	WKS.00010039	Failed to invoke VagController interface.		
500	WKS.00010043	This migration is not complete.	This migration is not complete.	Waiting for the migration to complete
500	WKS.00010119	Failed to query domain information based on the FQDN. Please check whether the AD service is normal, and try again.	Failed to query the NetBIOS domain name based on the FQDN.	Please contact the administrator.
500	WKS.00010137	agentStepCode info is null or empty.	The sysprepstepcode information is empty.	Please contact the administrator.
500	WKS.00010200	A disk mounting task exists on the desktop. Please try again later.	The desktop has a disk mounting task. Please try again later.	Retry after the disk mounting task is complete.

Status Code	Error Codes	Error Message	Description	Solution
500	WKS.0001020 1	Failed to query the list of disks mounted to the desktop. Please try again later.	Failed to query the list of disks attached to the desktop. Please try again later.	Please try again later or contact the administrator
500	WKS.0001020 2	Failed to query disk details. Please try again later.	Failed to query disk details. Please try again later.	Please try again later or contact the administrator
500	WKS.0001030 2	The desktop not set support snapshot.	The self-service backup management function is not enabled for the desktop. Contact the administrator for confirmation.	Please contact the administrator.
500	WKS.0001032 0	Failed to query desktop group info. Please check the status of WKSDesktops Controller and try again.	Failed to query desktop group information. Please check whether the HDC component is normal in the alarm monitoring module, and try again.	Contact the administrator.
500	WKS.0001105 5	The agency has not been created. Create an agency or re-authorize it.		

Status Code	Error Codes	Error Message	Description	Solution
500	WKS.0002	Internal error. Please contact your system administrator.	Internal error. Please contact the administrator.	Contact the administrator.
500	WKS.0003	Database error or parameter configuration error.	The database is abnormal or parameter settings are incorrect.	Please contact the administrator.
500	WKS.0004	The internal request message is empty.	The internal request message is empty.	Check whether mandatory parameters are left blank.
500	WKS.0005	Failed to invoke ECS interface.		
500	WKS.0009	Failed to invoke the IAM interface.	Failed to authenticate the user information. Please try again or cancel the registration again.	Click Retry or Cancel Registration.
500	WKS.0014	Failed to invoke EVS interface.		
500	WKS.0018	Failed to invoke EIP interface, error message: {0}.		
500	WKS.0126	Failed to operate database.	Failed to operate the database.	Contact the administrator.
500	WKS.0221	Failed to invoke CBC interface.		

Status Code	Error Codes	Error Message	Description	Solution
500	WKS.0224	Unpaid orders already exist, so this operation is not allowed.	This operation is not allowed because an unpaid order already exists.	Check whether the order is not paid. If yes, pay or cancel the order.
500	WKS.0923	The image does not exist.	The image does not exist.	Check whether the image exists on HUAWEI CLOUD Console IMS.
400	WKS.0001	Invalid request parameter.	Invalid request parameter.	Please check parameter
400	WKS.0005	Failed to invoke the ECS interface.	Failed to invoke the ECS interface.	Please contact the administrator
400	WKS.0006	Failed to create the VPC network. Click Retry or Cancel Service, and then Apply Now again.	Failed to create the VPC network. Click Retry or Cancel Service, and then Apply Now again.	Please contact the administrator
400	WKS.0008	Failed to invoke the SMN interface.	Failed to invoke the SMN interface.	Please contact the administrator
400	WKS.0009	Failed to invoke the IAM interface.	Failed to invoke the IAM interface.	Please contact the administrator
400	WKS.0017010 1	The password complexity is insufficient.	The password complexity is insufficient.	Change the password again to improve the password complexity.
400	WKS.0017010 2	The password is the same as the historical password.	The password is the same as the historical password.	Please redefine the password to ensure that the password is different from the history.

Status Code	Error Codes	Error Message	Description	Solution
400	WKS.00170103	The password contains the user name.	The password contains the user name.	Modify the password so that the password does not contain the user name.
400	WKS.0020	Failed to invoke query subnets interface.	Failed to invoke query subnets interface.	Please contact the administrator
400	WKS.0106	Insufficient quota.	Insufficient quota.	Please check quota
400	WKS.0163	Failed to export the XML file.	Failed to export the XML file.	Check the error and contact the administrator.
400	WKS.0164	Failed to import the XML file.	Failed to import the XML file.	Check the file for specific errors and contact the administrator.
400	WKS.0165	Multiple policy groups with the same name exist in the file	Multiple policy groups with the same name exist in the file	Change the policy group name in the file.
400	WKS.0300	Get customer product info fail.	Get customer product info fail.	Please contact the administrator
400	WKS.0301	Product package info error.	Product package info error.	Please check product package info
400	WKS.0401	The desktop cannot be modified because it is not started.	The desktop cannot be modified because it is not started.	Please check desktop status
400	WKS.0404	Failed to modify desktop attributes.	Failed to modify desktop attributes.	Please contact the administrator

Status Code	Error Codes	Error Message	Description	Solution
400	WKS.0406	The desktop cannot be modified because it is being started, stopped, or restarted.	The desktop cannot be modified because it is being started, stopped, or restarted.	Please check desktop status
400	WKS.0503	Rest project id invalid.	Rest project id invalid.	Please check parameter
400	WKS.0505	Invalid parameter action.	Invalid parameter action.	Please contact the administrator
400	WKS.0506	Request parameters cannot contain offset or limit.	Request parameters cannot contain offset or limit.	Please check parameter
400	WKS.0508	The value of offset cannot be smaller than 0.	The value of offset cannot be smaller than 0.	Please check parameter
400	WKS.0509	The value of limit must be greater than 0 and smaller than 1000.	The value of limit must be greater than 0 and smaller than 1000.	Please check parameter
400	WKS.0560	The value of matches cannot be left empty.	The value of matches cannot be left empty.	Please check parameter
400	WKS.0563	The number of tag keys cannot be 0 or greater than 10.	The number of tag keys cannot be 0 or greater than 10.	Please check parameter
400	WKS.0564	Invalid tag.	Invalid tag.	Please check parameter
400	WKS.0565	Duplicate tag keys.	Duplicate tag keys.	Please check parameter

Status Code	Error Codes	Error Message	Description	Solution
400	WKS.0566	A maximum of 10 tags can be added to each desktop.	A maximum of 10 tags can be added to each desktop.	Please check parameter
400	WKS.0568	The resource does not exist or is a resource of another project.	The resource does not exist or is a resource of another project.	Please check parameter
401	WKS.0570	The token role does not have the permission to perform this operation.	The token role does not have the permission to perform this operation.	Please relogin
403	WKS.0011	This operation is not allowed because the service has not been enabled for the tenant.	This operation is not allowed because the service has not been enabled for the tenant.	Please check service status
403	WKS.0402	The desktop is being deleted and cannot be modified.	The desktop is being deleted and cannot be modified.	Please check desktop status
403	WKS.0403	The desktop failed to be deleted and cannot be modified.	The desktop failed to be deleted and cannot be modified.	Please check desktop status
403	WKS.0405	The desktop cannot be modified because it is not started.	The desktop cannot be modified because it is not started.	Please check desktop status
403	WKS.0407	This operation cannot be performed because disks are being added.	This operation cannot be performed because disks are being added.	Please check desktop status

Status Code	Error Codes	Error Message	Description	Solution
404	WKS.0010	No resources in the system.	No resources in the system.	Please check uri
404	WKS.00170107	The enterprise ID is not exists.	The enterprise ID is not exists.	Check whether the enterprise ID is correct.
404	WKS.0569	The tag key does not exist.	The tag key does not exist.	Please check parameter
500	WKS.0002	Internal error.	Internal error.	Please contact the administrator
500	WKS.0003	Operation database error.	Operation database error.	Please contact the administrator
500	WKS.00170108	Reset user's password failed.	Reset user's password failed.	Please contact the administrator
500	WKS.00170112	This migration is not complete.	This migration is not complete.	Wait until the migration is complete.
500	WKS.0208	Failed to apply the service environment preparation status. Click Retry or Cancel to re-register the user.	Failed to apply the service environment preparation status. Click Retry or Cancel to re-register the user.	Please contact the administrator
400	WKS.00000091	Application servers exist	Application servers exist	After deleting the application service, run the following command:
400	WKS.0035	The enterprise ID has been used. Enter another ID.	The enterprise ID has been used.	Please change company ID
401	WKS.00000038	The REST service port to be accessed is invalid.	The REST service port to be accessed is invalid.	Please replace the service port with the correct one.

Status Code	Error Codes	Error Message	Description	Solution
401	WKS.00000039	Failed to authenticate the IAM user, please contact your system administrator.	Failed to authenticate the IAM user.	Please contact your system administrator.
401	WKS.0570	The token role does not have the permission to perform this operation.	The token role does not have the permission to perform this operation.	Please contact your system administrator.
403	WKS.00000040	File is not exist.	File is not exist.	Check whether the file path or file name is correct.
403	WKS.0012	The user is not authorized.	The user is not authorized.	Please contact your system administrator.
500	WKS.00000001	Common query internal info failed.	Common query internal info failed.	Please contact your system administrator.
500	WKS.00000002	The tenant is not allowed to apply for services in the current state.	The tenant is not allowed to apply for services in the current state.	The tenant is not allowed to apply for services in the current state.
500	WKS.00000003	Failed to obtain database information. Click Cancel Service and Apply Now again.	Failed to obtain database information.	Click Cancel Service and Apply Now again.
500	WKS.00000004	Failed to obtain the management node IP address. Click Cancel Service and Apply Now again.	Failed to obtain the management node IP address.	Click Cancel Service and Apply Now again.

Status Code	Error Codes	Error Message	Description	Solution
500	WKS.00000005	Failed to obtain the system disk type. Click Cancel Service and Apply Now again.	Failed to obtain the system disk type.	Click Cancel Service and Apply Now again.
500	WKS.00000006	Failed to apply for service due to abnormal resources. Click Cancel Service and Apply Now again.	Failed to apply for service due to abnormal resources.	Click Cancel Service and Apply Now again.
500	WKS.00000007	Failed to obtain the network segment information about the management node. Click Cancel Service, change the subnet network segment, and re-apply.	Failed to obtain the network segment information about the management node.	Click Cancel Service, change the subnet network segment, and re-apply.
500	WKS.00000008	Task query timed out. Click Retry or Cancel Service, and then Apply Now again.	Task query timed out.	Click Retry or Cancel Service, and then Apply Now again.

Status Code	Error Codes	Error Message	Description	Solution
500	WKS.00000009	Failed to create the vAG management node. Click Retry or Cancel Service, and then Apply Now again.	Failed to create the vAG management node.	Click Retry or Cancel Service, and then Apply Now again.
500	WKS.00000010	There are ongoing tasks.	There are ongoing tasks.	Please wait for the task to stop and try again
500	WKS.00000011	Failed to refresh WKSLiteAS configurations	Failed to refresh WKSLiteAS configurations	Please contact your system administrator.
500	WKS.00000012	Failed to obtain task information.	Failed to obtain task information.	Please contact your system administrator.
500	WKS.00000013	Failed to obtain information about internal tokens. Click Retry or Cancel Service, and then Apply Now again.	Failed to obtain information about internal tokens.	Click Retry or Cancel Service, and then Apply Now again.
500	WKS.00000014	Failed to clear tenant data.	Failed to clear tenant data.	Please contact your system administrator.
500	WKS.00000015	Failed to invoke IMS interface.	Failed to invoke IMS interface.	Please contact your system administrator.
500	WKS.00000016	Failed to invoke WKSITA interface.	Failed to invoke WKSITA interface.	Please contact your system administrator.

Status Code	Error Codes	Error Message	Description	Solution
500	WKS.00000017	Failed to delete the tenant information in WKSDesktops Controller.	Failed to delete the tenant information in WKSDesktops Controller.	Please contact your system administrator.
500	WKS.00000018	Failed to invoke ELB interface.	Failed to invoke ELB interface.	Please contact your system administrator.
500	WKS.00000019	Failed to invoke VPCEP interface.	Failed to invoke VPCEP interface.	Please contact your system administrator.
500	WKS.00000020	Failed to invoke EIP interface.	Failed to invoke EIP interface.	Please contact your system administrator.
500	WKS.00000021	Failed to query agent information.	Failed to query agent information.	Please contact your system administrator.
500	WKS.00000022	Failed to config agent.	Failed to config agent.	Please contact your system administrator.
500	WKS.00000023	Failed to install agent.	Failed to install agent.	Please contact your system administrator.
500	WKS.00000024	Failed to obtain the resource tenant token.	Failed to obtain the resource tenant token.	Please contact your system administrator.
500	WKS.00000025	The service status does not allow task retry.	The service status does not allow task retry.	Please wait for account opening success or failure and try again
500	WKS.00000026	Failed to create the task.	Failed to create the task.	Please configure cron expression
500	WKS.00000027	The domain type is invalid.	The domain type is invalid.	Please confirm that the AD domain has been configured

Status Code	Error Codes	Error Message	Description	Solution
500	WKS.00000028	Internal task operation error (an internal error of task framework). Please check whether the task time is set to Never trigger.	Internal task operation error (an internal error of task framework).	Please check whether the task time is set to Never trigger.
500	WKS.00000029	Failed to create the task because the interval is less than or equal to 0.	Failed to create the task because the interval is less than or equal to 0.	The interval is less than or equal to 0.
500	WKS.00000030	Failed to invoke WKSDesktops Controller interface.	Failed to invoke WKSDesktops Controller interface.	Please contact your system administrator.
500	WKS.00000031	Failed to invoke WKSDesktops Manager interface.	Failed to invoke WKSDesktops Manager interface.	Please contact your system administrator.
500	WKS.00000032	The third-party password data is not configured. The Enable switch cannot be turned on.	The third-party password data is not configured.	Please configure third-party password data first
500	WKS.00000033	The configuration item values are incorrect. Please check the input value and try again.	The configuration item values are incorrect.	Please check the input value and try again.

Status Code	Error Codes	Error Message	Description	Solution
500	WKS.00000034	The Configuration Name already exists.	The Configuration Name already exists.	Please replace with a different configuration name
500	WKS.00000035	The configuration is being called by another component. Ensure that it is not used and try again.	The configuration is being called by another component.	Ensure that it is not used and try again.
500	WKS.00000036	The button 'Whether to Enable Third-party SSO' cannot be toggled on because no third-party SSO data is available.	The button 'Whether to Enable Third-party SSO' cannot be toggled on because no third-party SSO data is available.	Please configure third-party single sign-on data
500	WKS.00000037	The value can not contain the special characters: <>.	The value can not contain the special characters: <>.	Please enter a drive path without '<>'
500	WKS.00000041	Cache error or parameter configuration error.	Cache error or parameter configuration error.	Please contact your system administrator.
500	WKS.00000042	Apollo error or parameter configuration error.	Apollo error or parameter configuration error.	Please contact your system administrator.
500	WKS.00000043	Failed to invoke WKSOPS interface.	Failed to invoke WKSOPS interface.	Please contact your system administrator.

Status Code	Error Codes	Error Message	Description	Solution
500	WKS.0000006 1	Failed to connect to Windows AD. Check the following configurations :1. Whether the network connectivity between the LiteAS and Windows AD is normal.2. Whether the domain name, domain administrator account, and password are correct.3. Whether the time of the LiteAS is synchronized with that of Windows AD.	Failed to connect to Windows AD.	Check the following configurations:1. Whether the network connectivity between the LiteAS and Windows AD is normal.2. Whether the domain name, domain administrator account, and password are correct.3. Whether the time of the LiteAS is synchronized with that of Windows AD.
500	WKS.0000006 2	Enter a standard auth URL, for example, https://cc.idp4.idsmanger.com/oauth/authorize .	Enter a standard auth URL.	For example, https://cc.idp4.idsmanger.com/oauth/authorize .
500	WKS.0000006 3	The AD domain information already exists.	The AD domain information already exists.	Please contact your system administrator.

Status Code	Error Codes	Error Message	Description	Solution
500	WKS.00000064	Enter a standard token URL, for example, https://cc.idp4.idsmanager.com/oauth/token.	Enter a standard token URL.	For example, https://cc.idp4.idsmanager.com/oauth/token.
500	WKS.00000065	Enter a standard redirect URL, for example, https://10.23.126.80:8080/servlet/AuthenServlet.	Enter a standard redirect URL.	For example, https://10.23.126.80:8080/servlet/AuthenServlet.
500	WKS.00000066	Invalid user information template. Use a template in the correct format.	Invalid user information template.	Pay attention to the check or fill in the information by referring to the online help.
500	WKS.00000067	Invalid screen unlocking template. Use a template in the correct format.	Invalid screen unlocking template.	Pay attention to the check or fill in the information by referring to the online help.
500	WKS.00000068	The format of the parameters entered through the interface is invalid.	The format of the parameters entered through the interface is invalid.	Pay attention to the check or fill in the information by referring to the online help.
500	WKS.00000069	Invalid user synchronization template. Use a template in the correct format.	Invalid user synchronization template.	Pay attention to the check or fill in the information by referring to the online help.

Status Code	Error Codes	Error Message	Description	Solution
500	WKS.0001	The format of the parameters entered through the interface is invalid. {0} is invalid.	The format of the parameters entered through the interface is invalid.	Please enter correct request information
500	WKS.0002	Internal error. Please contact your system administrator. {0}.	Internal error.	Please contact your system administrator.
500	WKS.0003	Database error or parameter configuration error.	Database error or parameter configuration error.	Please try again after opening service
500	WKS.0005	Failed to invoke ECS interface.	Failed to invoke ECS interface.	Please try again after opening service
500	WKS.0006	Failed to invoke VPC interface.	Failed to invoke VPC interface.	Please try again after opening service
500	WKS.0009	Failed to authenticate user information.	Failed to authenticate user information.	Please try again after opening service
500	WKS.0010	No resources in the system. {0} is not found.	No resources in the system.	Please try again after opening service
500	WKS.0011	This operation is not allowed because the service has not been enabled for the tenant.	This operation is not allowed because the service has not been enabled for the tenant.	Please try again after opening service
500	WKS.0014	Failed to invoke EVS interface.	Failed to invoke EVS interface.	Please contact your system administrator.

Status Code	Error Codes	Error Message	Description	Solution
500	WKS.0032	Failed to init the job. Please contact your system administrator.	Failed to init the job.	Please contact your system administrator.
500	WKS.0033	The domain information does not exist.	The domain information does not exist.	Please fill in the correct domain information
500	WKS.0036	The number of tenants exceeds the maximum.	The number of tenants exceeds the maximum.	Please contact your system administrator.
500	WKS.0106	Insufficient quota.	Insufficient quota.	Please contact your system administrator.
500	WKS.0207	A user cannot cancel Workspace in the current service status.	A user cannot cancel Workspace in the current service status.	Please wait for account opening success or failure and try again
500	WKS.0216	When the domain type is LOCAL_AD, the IP addresses of the active controller and active DNS cannot be empty.	When the domain type is LOCAL_AD, the IP addresses of the active controller and active DNS cannot be empty.	Please fill in the primary controller IP and primary DNS IP and try again
500	WKS.0220	Failed to access WKSLiteAS, please check whether WKSLiteAS is normal.	Failed to access WKSLiteAS.	Please check whether WKSLiteAS is normal.

Status Code	Error Codes	Error Message	Description	Solution
500	WKS.0808	The current user cannot deregister the Workspace service because the user still has desktops.	The current user cannot deregister the Workspace service because the user still has desktops.	Please delete all desktops first
500	WKS.0904	Failed to query domain users.	Failed to query domain users.	Please check whether the AD component is normal in the alarm monitoring, and then try again
500	WKS.2001	Authentication failed.	Authentication failed.	Please contact your system administrator.

A.3 Obtaining a Project ID

Obtaining a Project ID by Calling an API

You can also obtain the project ID by calling the API used to [query project information based on the specified criteria](#).

The API for obtaining a project ID is **GET [https://{{Endpoint}}/v3/projects](#)**, where *{Endpoint}* indicates the IAM endpoint. You can obtain the IAM endpoint from [Regions and Endpoints](#). For details about API authentication, see [3.2 Authentication](#).

The following is an example response. *id* indicates a project ID.

```
{
  "projects": [
    {
      "domain_id": "65382450e8f64ac0870cd180d14e684b",
      "is_domain": false,
      "parent_id": "65382450e8f64ac0870cd180d14e684b",
      "name": "project_name",
      "description": "",
      "links": {
        "next": null,
        "previous": null,
        "self": "https://www.example.com/v3/projects/a4a5d4098fb4474fa22cd05f897d6b99"
      },
      "id": "a4a5d4098fb4474fa22cd05f897d6b99",
      "enabled": true
    }
  ],
  "links": {
```

```
"next": null,  
"previous": null,  
"self": "https://www.example.com/v3/projects"  
}
```

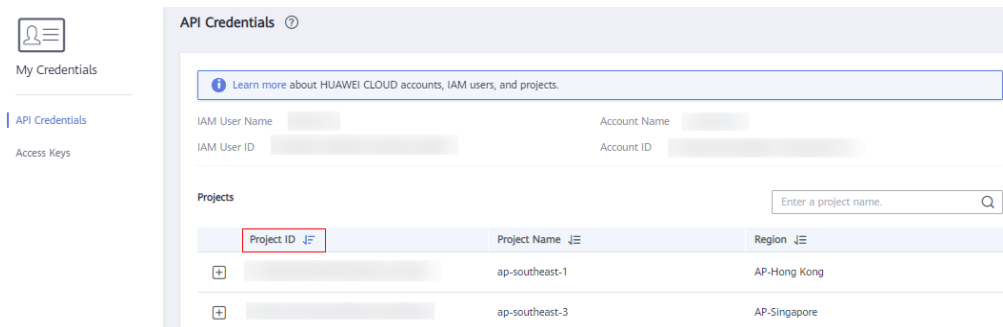
Obtaining a Project ID from the Console

A project ID needs to be specified in the URLs of some APIs. Therefore, you need to obtain a project ID before calling such APIs. Perform the following steps to obtain a project ID:

1. Log in to Workspace Console.
2. Hover over the username and choose **My Credentials** from the drop-down list.

On the displayed **API Credentials** page, view project IDs in the project list.

Figure A-1 Viewing a project ID



A.4 Obtaining an account ID

An account ID is required for some URLs when an API is called. To obtain the account ID, perform the following steps:

1. Log in to Workspace Console.
2. Hover over the username and choose **My Credentials** from the drop-down list.

On the **API Credentials** page, view **Account ID**.

Figure A-2 Obtaining an account ID

