

CodeArts Pipeline

API Reference

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1 Before You Start

Welcome to CodeArts Pipeline. CodeArts Pipeline provides visual, customizable pipelines to shorten the delivery period and improve efficiency.

This document describes how to use APIs to perform operations on pipelines, such as starting and stopping pipelines. For details about all supported operations, see [API Overview](#).

Before calling CodeArts Pipeline APIs, ensure that you are familiar with CodeArts Pipeline concepts. For details, see [Service Overview](#).

CodeArts Pipeline supports Representational State Transfer (REST) APIs that can be called using HTTPS. For details, see [Calling APIs](#).

Endpoints

An endpoint is the request address for calling an API. Endpoints vary depending on services and regions. For the endpoints of all services, see [Regions and Endpoints](#).

[Table 1-1](#) lists the CodeArts Pipeline endpoints.

Table 1-1 CodeArts Pipeline endpoints

Region Name	Region	Endpoint	Protocol
LA-Mexico City2	la-north-2	devcloud.la-north-2.myhuaweicloud.com	HTTPS
LA-Sao Paulo1	sa-brazil-1	devcloud.sa-brazil-1.myhuaweicloud.com	HTTPS
AP-Singapore	ap-southeast-3	devcloud.ap-southeast-3.myhuaweicloud.com	HTTPS
TR-Istanbul	tr-west-1	pipeline-external.tr-west-1.myhuaweicloud.com	HTTPS
LA-Santiago	la-south-2	pipeline-external.la-south-2.myhuaweicloud.com	HTTPS

Concepts

- **Account**

An account is created upon successful registration with Huawei Cloud. 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 identity and access management (IAM) user is created using an account to use cloud services. Each IAM user has their own identity credentials (password and access keys).

An IAM user can view the account ID and user ID on the [My Credentials](#) page of the console. The account, username, and password are required for API authentication.
- **Region**

Regions are divided based on geographical location and network latency. Public services, such as Elastic Cloud Server (ECS), Elastic Volume Service (EVS), Object Storage Service (OBS), Virtual Private Cloud (VPC), Elastic IP (EIP), and Image Management Service (IMS), are shared within the same region.

Regions are classified into universal regions and dedicated regions.

 - A universal region provides universal cloud services for common tenants.
 - A dedicated region provides particular services for specific tenants.

For details, see [Region and AZ](#).
- **Availability zone**

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 allow you to build cross-AZ high-availability (HA) systems.
- **Project**

Projects group and isolate resources (including compute, storage, and network 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. Then you can assign required permissions for users to access only resources in specific subprojects.
- **Enterprise project**

An enterprise project groups and manages enterprise resources in a logically isolated manner. It contains resources in multiple regions, and allows resources to be added or removed.

For details about how to obtain enterprise project IDs and features, see [Enterprise Management User Guide](#).

2 API Overview

Table 2-1 API overview

Category	API
Template management	APIs for querying the template list, creating a pipeline template, and querying template details.
Pipeline management	APIs for starting a pipeline, obtaining pipeline status in batches or separately, and obtaining execution details.
Group management	APIs for creating, updating, and deleting pipeline groups.
Rule management	APIs for obtaining details about a single rule, obtaining the rule list by page, and updating rules.
Tenant-level policy management	APIs for creating a policy, modifying a policy, and obtaining policy details.
Project-level policy management	APIs for obtaining the project-level policy list and querying the project-level policy list.
Extension management	APIs for creating an extension version, extension draft version, and a publisher.
Template management (old version)	APIs for querying the template list and querying template details.
Pipeline management (old version)	APIs for quickly creating pipelines and tasks based on templates, checking pipeline creation status, and starting pipelines.

3 Calling APIs

3.1 Making an API Request

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

Request URI

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

A request URI consists of four parts: *{URI-scheme}://{Endpoint}/ {resource-path}? {query-string}*

The following table describes the parameters.

Parameter	Description
URI-scheme	Protocol used to transmit requests. All APIs use HTTPS .
Endpoint	Domain name or IP address of the server bearing the REST service. The endpoint varies among services in different regions. It can be obtained from Regions and Endpoints . For example, the endpoint of IAM in the AP-Singapore region is iam.ap-southeast-3.myhuaweicloud.com .
resource-path	The resource path, that is, the API access path, is obtained from the URI of a specific API. For example, resource-path of the API for creating an IAM user is /v3.0/OS-USER/users .
query-string	(Optional) Query a parameter. The query parameter is prefixed with a question mark (?), in the format of Parameter name=Parameter value . For example, limit=10 indicates that a maximum of 10 data records will be queried.

For example, if you want to create an IAM user, use the endpoint of any region because IAM is a global service. Obtain the endpoint of the AP-Singapore region (iam.ap-southeast-3.myhuaweicloud.com) and find **resource-path** (/v3.0/OS-USER/users) in the URI of the API for [creating an IAM user](#). Then, construct them as follows:

```
https://iam.ap-southeast-3.myhuaweicloud.com/v3.0/OS-USER/users
```

Figure 3-1 Example URI



NOTE

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

Request Methods

HTTP defines the following request methods that can be used to send a request to the server.

Request Method	Description
GET	Requests the server to return specified resources.
PUT	Requests the server to update specified resources.
POST	Requests the server to add resources or perform special operations.
DELETE	Requests the server to delete specified resources, for example, an object.
HEAD	Requests the server to return the response header.
PATCH	Requests the server to update partial content of a specified resource. If the resource does not exist, a new resource will be created.

For example, in the case of the API for [creating an IAM user](#), the request method is **POST**. An example request is as follows:

```
POST https://iam.ap-southeast-3.myhuaweicloud.com/v3.0/OS-USER/users
```

Request Header

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

The following table lists the common request header fields.

- **Content-Type**: specifies the 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**: specifies 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 more information, see [AK/SK-based 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 more information, see [AK/SK-based Authentication](#).
- **X-Auth-Token**: A user token only for token-based API authentication. The user token is a response to the API used to [obtain a user token](#). Only this API 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.

The following shows an example request of the API for [creating an IAM user](#) when AK/SK authentication is used:

```
POST https://iam.ap-southeast-3.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 structured format. It corresponds to **Content-Type** in the request header and transfers content except the request header.

The request body varies according to APIs. Certain APIs do not require the request body, such as GET and DELETE.

For the API for [creating an IAM user as an administrator](#), you can check the required request parameters and their description in the API request. The following provides an example request with a body included. Replace the italic fields in bold with the actual values.

- **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-3.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.

3.2 Authentication

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

- Token-based authentication: Requests are authenticated using a token.
- AK/SK-based authentication: Requests are authenticated by encrypting the request body using an AK/SK pair.

Token-based Authentication

NOTE

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

A token specifies temporary permissions in a computer system. During API authentication using a token, the token is added to requests to get permissions for calling the API.

When calling the API 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": "xxxxxxx"  
      }  
    }  
  }  
}
```

After a token is obtained, the **X-Auth-Token** header field must be added to requests to specify the token when other APIs are called. For example, if the token is **ABCDEFGH....**, add **X-Auth-Token: ABCDEFG....** to a request as follows:

```
GET https://iam.ap-southeast-3.myhuaweicloud.com/v3.0/OS-USER/users  
Content-Type: application/json  
X-Auth-Token: ABCDEFJ....
```

AK/SK-based Authentication

NOTE

- AK/SK-based authentication supports API requests with a body not larger than 12 MB. For API requests with a larger body, token-based authentication is recommended.
- You can use the AK/SK in either a permanent or temporary access key. If you are using a temporary access key, configure the **X-Security-Token** field whose value is the **security_token** of the temporary access key.

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

NOTICE

Unlike the SDKs provided by services, the signing SDK is only used for signing requests.

3.3 Response

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 [Status Codes](#).

For example, if status code 201 is returned after calling the API for [creating an IAM user as an administrator](#), the request has succeeded.

Response Header

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

For example, the response headers shown in [Figure 3-2](#) are returned after calling the API for [creating an IAM user as an administrator](#).

Figure 3-2 Response headers

```
"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

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

For example, the response headers shown below are returned after calling the API for [creating an IAM user as an administrator](#). The following is part of the response body for the API used to obtain 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 API

4.1 Template Management

4.1.1 Querying Template List

Function

This API is used to query the pipeline template list.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v5/{tenant_id}/api/pipeline-templates/list

Table 4-1 Path Parameters

Parameter	Mandatory	Type	Description
tenant_id	Yes	String	Definition: Tenant ID, that is, domain ID of a user. Constraints: N/A Value range: The value consists of 32 characters, including only digits and letters. Default value: N/A

Request Parameters

Table 4-2 Request body parameters

Parameter	Mandatory	Type	Description
language	No	String	Definition: Template language. Constraints: N/A Value range: • Java. • Python. • Node.js. • Go. • .NET. • cpp. • PHP. • Other. • None. Default value: N/A
is_system	No	Boolean	Definition: Whether the template is a system template. Constraints: N/A Value range: • true: The template is a system template. • false: The template is not a system template. Default value: N/A
name	No	String	Parameter description: Template name. Constraints: None. Value range: None. Default value: None.

Parameter	Mandatory	Type	Description
offset	No	Long	Parameter description: Offset, which is the position where the query starts. Constraints: None. Value range: The value is no less than 0 . Default value: The default value is 0 .
limit	No	Long	Definition: Number of records of each query. Constraints: N/A Value range: The value is no less than 0 . Default value: 10 .
sort_key	No	String	Definition: (Optional) Field for sorting. Constraints: N/A Value range: N/A Default value: N/A
sort_dir	No	String	Definition: (Optional) Sorting type. Constraints: N/A Value range: • asc: by sorting field in ascending order. • desc: by sorting field in descending order. Default value: N/A

Response Parameters

Status code: 200

Table 4-3 Response body parameters

Parameter	Type	Description
offset	Integer	Parameter description: Initial offset. Value range: None.
limit	Integer	Parameter description: Number of queried records. Value range: None.
total	Integer	Parameter description: Total number of records. Value range: None.
templates	Array of PipelineTemplateSimpleVO objects	Parameter description: Pipeline template list, including details about pipeline templates. Value Range: N/A.

Table 4-4 PipelineTemplateSimpleVO

Parameter	Type	Description
id	String	Definition: Template ID. Value range: The value consists of 32 characters, including digits and letters.
name	String	Parameter description: Template name. Value range: None.

Parameter	Type	Description
icon	String	Parameter description: Template icon. Value range: None.
manifest_version	String	Parameter description: Version. Value range: The default value is 3.0 .
language	String	Definition: Template language. Value range: • Java. • Python. • Node.js. • Go. • .NET. • cpp. • PHP. • Other. • None.
description	String	Parameter description: Template description. Value range: None.
is_system	Boolean	Definition: Whether the template is a system template. Value range: • true: The template is a system template. • false: The template is not a system template.
region	String	Parameter description: Template region. Value range: None.

Parameter	Type	Description
domain_id	String	Definition: ID of the tenant to which the template belongs. Value range: The value consists of 32 characters, including digits and letters.
creator_id	String	Definition: Template creator ID. Value range: The value consists of 32 characters, including digits and letters.
creator_name	String	Parameter description: Template creator name. Value range: None.
updater_id	String	Definition: Template updater ID. Value range: The value consists of 32 characters, including digits and letters.
create_time	Integer	Parameter description: Creation time. Value range: None.
update_time	Integer	Parameter description: Update time. Value range: None.
is_collect	Boolean	Definition: Whether to add the object to favorites. Value range: • true: Add the object to favorites. • false: Do not add the object to favorites.

Parameter	Type	Description
is_show_source	String	Definition: Whether to display the pipeline source. Value range: • true: The pipeline source is displayed. • false: The pipeline source is not displayed.
stages	Array of stages objects	Parameter description: Stages of template orchestration. Constraints: N/A

Table 4-5 stages

Parameter	Type	Description
name	String	Parameter description: Stage name. Value range: Enter only letters, digits, hyphens (-), underscores (_), commas (,), semicolons (;), colons (:), periods (.), slashes (/), parentheses (), and spaces. The name cannot start or end with a space, and the length is 1128 characters.
sequence	Integer	Parameter description: Stage sequence. Value range: No less than 0.

Status code: 400

Table 4-6 Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

This API is used to query the pipeline template list.

Set the start offset to 0 and the number to 3.

```
POST https://{endpoint}/v5/a5f63758220947b7821e70ae2734c01d/api/pipeline-templates/list
```

```
{
  "is_system" : "",
  "offset" : 0,
  "limit" : 3,
  "name" : ""
}
```

Example Responses

Status code: 200

OK

```
{
  "offset" : 0,
  "limit" : 3,
  "total" : 19,
  "templates" : [ {
    "id" : "e908740fe06e44a28f30c0f3c81b2ad5",
    "name" : "Serverless-maven Compilation and Deployment",
    "icon" : "maven60",
    "manifest_version" : "3.0",
    "language" : "Java",
    "description" : "Serverless-maven compilation and building, packaging, and deployment templates",
    "is_system" : true,
    "region" : "{region}",
    "domain_id" : "system",
    "creator_id" : "system",
    "creator_name" : "system",
    "updater_id" : "e908740fe06e44a28f30c0f3c81b2ad5",
    "create_time" : 1671172288000,
    "update_time" : 1677640980000,
    "is_collect" : true,
    "is_show_source" : null,
    "stages" : [ {
      "name" : "Build and Check",
      "sequence" : 0
    }, {

```

```
{
  "name": "Deployment and Test",
  "sequence": 1
}, {
  "id": "ac3b3b9a6cb64ef6b732c8f8459ab578",
  "name": "Building a Container Image on a Node",
  "icon": "npm60",
  "manifest_version": "3.0",
  "language": "Node.js",
  "description": "Use nodes to build container images and push them to SWR for storage.",
  "is_system": true,
  "region": "{region}",
  "domain_id": "system",
  "creator_id": "system",
  "creator_name": "system",
  "updater_id": "ac3b3b9a6cb64ef6b732c8f8459ab578",
  "create_time": 1671172288000,
  "update_time": 1677640980000,
  "is_collect": true,
  "is_show_source": null,
  "stages": [ {
    "name": "Build",
    "sequence": 0
  } ]
}, {
  "id": "8ea4d170ba0d45d9b1b647a9780ebcf8",
  "name": "Getting Started",
  "icon": null,
  "manifest_version": "3.0",
  "language": "java",
  "description": "Pipeline Template for Beginners",
  "is_system": true,
  "region": "{region}",
  "domain_id": "system",
  "creator_id": "system",
  "creator_name": "system",
  "updater_id": "ac3b3b9a6cb64ef6b732c8f8459ab578",
  "create_time": 1680769082000,
  "update_time": 1680770243000,
  "is_collect": false,
  "is_show_source": null,
  "stages": [ {
    "name": "Code check",
    "sequence": 0
  }, {
    "name": "Build Phase",
    "sequence": 1
  }, {
    "name": "Deployment and Release",
    "sequence": 2
  } ]
} ]
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

This API is used to query the pipeline template list.

Set the start offset to 0 and the number to 3.

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
```

```
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class ListPipelineTemplatesSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        ListPipelineTemplatesRequest request = new ListPipelineTemplatesRequest();
        request.withTenantId("{tenant_id}");
        ListPipelineTemplatesQuery body = new ListPipelineTemplatesQuery();
        body.withLimit(3L);
        body.withOffset(0L);
        body.withName("");
        body.withIsSystem();
        request.withBody(body);
        try {
            ListPipelineTemplatesResponse response = client.listPipelineTemplates(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

This API is used to query the pipeline template list.

Set the start offset to 0 and the number to 3.

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
```

```
risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
variables and decrypted during use to ensure security.
# In this example, AK and SK are stored in environment variables for authentication. Before running this
example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
ak = os.environ["CLOUD_SDK_AK"]
sk = os.environ["CLOUD_SDK_SK"]

credentials = BasicCredentials(ak, sk)

client = CodeArtsPipelineClient.new_builder() \
    .with_credentials(credentials) \
    .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
    .build()

try:
    request = ListPipelineTemplatesRequest()
    request.tenant_id = "{tenant_id}"
    request.body = ListPipelineTemplatesQuery(
        limit=3,
        offset=0,
        name="",
        is_system=
    )
    response = client.list_pipeline_templates(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

This API is used to query the pipeline template list.

Set the start offset to 0 and the number to 3.

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListPipelineTemplatesRequest{
        request.TenantId = "{tenant_id}"
    }
```

```
limitListPipelineTemplatesQuery:= int64(3)
offsetListPipelineTemplatesQuery:= int64(0)
nameListPipelineTemplatesQuery:= ""
isSystemListPipelineTemplatesQuery:=
request.Body = &model.ListPipelineTemplatesQuery{
    Limit: &limitListPipelineTemplatesQuery,
    Offset: &offsetListPipelineTemplatesQuery,
    Name: &nameListPipelineTemplatesQuery,
    IsSystem: &isSystemListPipelineTemplatesQuery,
}
response, err := client.ListPipelineTemplates(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.1.2 Obtaining Pipeline Templates

Function

This API is used to query pipeline templates.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v3/pipeline/templates/list

Request Parameters

Table 4-7 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A
X-Language	No	String	Definition: Language type. Constraints: N/A Value range: • zh-cn: Chinese. • en-us: English. Default value: en-us .

Table 4-8 Request body parameters

Parameter	Mandatory	Type	Description
is_system	No	Boolean	Definition: Whether the template is a system template. Constraints: N/A Value range: • true: The template is a system template. • false: The template is not a system template. Default value: N/A
template_name	No	String	Definition: Template name. Constraints: N/A Value range: N/A Default value: N/A
offset	No	Long	Definition: Offset where the query starts. Constraints: N/A Value range: The offset value must be no less than 0. Default value: 0.
limit	No	Long	Definition: Number of records of each query. Constraints: N/A Value range: The value is no less than 0 . Default value: 10.

Parameter	Mandatory	Type	Description
sort_key	No	String	Definition: (Optional) Field for sorting. Constraints: N/A Value range: N/A Default value: N/A
sort_dir	No	String	Definition: (Optional) Sorting type. Constraints: N/A Value range: • asc: by sorting field in ascending order. • desc: by sorting field in descending order. Default value: N/A

Response Parameters

Status code: 200

Table 4-9 Response body parameters

Parameter	Type	Description
offset	Integer	Parameter description: Initial offset. Value range: None.
limit	Integer	Parameter description: Number of queried records. Value range: None.

Parameter	Type	Description
total	Integer	Parameter description: Total number of records. Value range: None.
templates	Array of PipelineTemplateSimpleVO objects	Parameter description: Pipeline template list, including details about pipeline templates. Value Range: N/A.

Table 4-10 PipelineTemplateSimpleVO

Parameter	Type	Description
id	String	Definition: Template ID. Value range: The value consists of 32 characters, including digits and letters.
name	String	Parameter description: Template name. Value range: None.
icon	String	Parameter description: Template icon. Value range: None.
manifest_version	String	Parameter description: Version. Value range: The default value is 3.0 .

Parameter	Type	Description
language	String	Definition: Template language. Value range: • Java. • Python. • Node.js. • Go. • .NET. • cpp. • PHP. • Other. • None.
description	String	Parameter description: Template description. Value range: None.
is_system	Boolean	Definition: Whether the template is a system template. Value range: • true: The template is a system template. • false: The template is not a system template.
region	String	Parameter description: Template region. Value range: None.
domain_id	String	Definition: ID of the tenant to which the template belongs. Value range: The value consists of 32 characters, including digits and letters.

Parameter	Type	Description
creator_id	String	Definition: Template creator ID. Value range: The value consists of 32 characters, including digits and letters.
creator_name	String	Parameter description: Template creator name. Value range: None.
updater_id	String	Definition: Template updater ID. Value range: The value consists of 32 characters, including digits and letters.
create_time	Integer	Parameter description: Creation time. Value range: None.
update_time	Integer	Parameter description: Update time. Value range: None.
is_collect	Boolean	Definition: Whether to add the object to favorites. Value range: • true: Add the object to favorites. • false: Do not add the object to favorites.
is_show_source	String	Definition: Whether to display the pipeline source. Value range: • true: The pipeline source is displayed. • false: The pipeline source is not displayed.

Parameter	Type	Description
stages	Array of stages objects	Parameter description: Stages of template orchestration. Constraints: N/A

Table 4-11 stages

Parameter	Type	Description
name	String	Parameter description: Stage name. Value range: Enter only letters, digits, hyphens (-), underscores (_), commas (,), semicolons (;), colons (:), periods (.), slashes (/), parentheses (), and spaces. The name cannot start or end with a space, and the length is 1128 characters.
sequence	Integer	Parameter description: Stage sequence. Value range: No less than 0.

Status code: 400**Table 4-12** Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.1.3 Creating a Pipeline Template

Function

This API is used to create a pipeline template.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v5/{tenant_id}/api/pipeline-templates

Table 4-13 Path Parameters

Parameter	Mandatory	Type	Description
tenant_id	Yes	String	Definition: Tenant ID, that is, domain ID of a user. Constraints: N/A Value range: The value consists of 32 characters, including only digits and letters. Default value: N/A

Request Parameters

Table 4-14 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Table 4-15 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Definition: Template name. Constraints: N/A Value range: N/A Default value: N/A
description	No	String	Definition: Template description. Constraints: N/A Value range: N/A Default value: N/A
language	Yes	String	Definition: Template language. Constraints: N/A Value range: N/A Default value: N/A
variables	No	Array of CustomVariable objects	Definition: Custom parameter. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
definition	Yes	String	Definition: Template orchestration JSON file, including stages. Constraints: N/A Value range: N/A Default value: N/A
is_system	Yes	Boolean	Definition: Whether the template is a system template. Constraints: N/A Value range: • true: The template is a system template. • false: The template is not a system template. Default value: N/A
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Parameter	Mandatory	Type	Description
is_show_source	Yes	Boolean	Definition: Whether to display the pipeline source. Constraints: N/A Value range: • true: Display the pipeline source. • false: Do not display the pipeline source. Default value: N/A

Table 4-16 CustomVariable

Parameter	Mandatory	Type	Description
pipeline_id	No	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Parameter	Mandatory	Type	Description
name	No	String	Definition: Custom parameter name. Constraints: N/A Value range: Enter a maximum of 128 characters. Only letters, digits, and underscores (_) are supported. Default value: N/A
sequence	No	Integer	Parameter description: Parameter sequence number, which starts from 1. Constraints: None. Value range: None. Default value: None.
type	No	String	Definition: Custom parameter type. Constraints: N/A Value range: • autoIncrement: auto-increment parameter. • enum: enumerated parameter. • string: string parameter. Default value: N/A

Parameter	Mandatory	Type	Description
value	No	String	Parameter description: Default value of a custom parameter. Constraints: None. Value range: Up to 8192 characters. Default value: None.
is_secret	No	Boolean	Definition: Private parameter or not. Constraints: N/A Value range: • true: The parameter is private. • false: The parameter is not private. Default value: false.
description	No	String	Parameter description: Parameter description. Constraints: None. Value range: Up to 1024 characters. Default value: None.

Parameter	Mandatory	Type	Description
is_runtime	No	Boolean	Definition: Whether a parameter can be set at runtime. Constraints: N/A Value range: • true: The parameter can be set at runtime. • false: The parameter cannot be set at runtime. Default value: false.
limits	No	Array of objects	Parameter description: List of enumerated values. Constraints: None. Value range: Up to 1,024 characters. Default value: None.
is_reset	No	Boolean	Definition: Whether to reset. If the auto-increment parameter is edited, the edited value is used. Otherwise, the last digit increases. Constraints: N/A Value range: • true: Use the edited parameter value. • false: Use the auto-increment parameter. Default value: false.

Parameter	Mandatory	Type	Description
latest_value	No	String	Definition: Value of the parameter in the last run. Constraints: N/A Value range: Max. 8,192 characters. Default value: N/A
runtime_value	No	String	Definition: Input value of a parameter when the pipeline is executed. Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-17 Response body parameters

Parameter	Type	Description
templateId	String	Definition: Template ID. Constraints: N/A Value range: N/A Default value: N/A

Status code: 400

Table 4-18 Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

```
POST https://{endpoint}/v5/ce8df55870164338a72d7e828a966a2a/api/pipeline-templates

{
  "name" : "Creating a Pipeline Template-20231023215133",
  "description" : "",
  "language" : "none",
  "is_show_source" : true,
  "variables" : [ ],
  "definition" : "{ \"stages\": [{ \"name\": \"Stage_1\", \"sequence\": \"0\", \"jobs\": [{ \"stage_id\n\n:1698069093677, \"identifier\": \"16980691185419778b0f5-02cd-4bd3-a8cc-da825644add1\", \"name\n\n: \"CodeCheck\", \"depends_on\": [], \"timeout\": \"\", \"timeout_unit\": \"\", \"steps\": [{ \"name\": \"CodeCheck\n\n: \"\", \"task\": \"official_devcloud_codeCheck_template\", \"sequence\": \"0\", \"inputs\": [{ \"key\": \"language\", \"value\n\n: \"Java\" }, { \"key\": \"module_or_template_id\", \"value\n\n: \"d7dffaefb6d94c63a09cf141668356c7\" } ], \"business_type\": \"Gate\", \"runtime_attribution\": { \"agent\n\n: \"\", \"identifier\": \"16980691136015f94b249-102d-44f2-abb5-02fa3ad9fae0\", \"multi_step_editable\n\n: \"0\", \"official_task_version\": \"0.0.1\" } }, { \"resource\": { \"type\": \"system\", \"arch\": \"x86\" } }\n\n: { \"condition\": \"${ completed() }\", \"exec_type\": \"OCTOPUS_JOB\", \"sequence\": \"0\" }, { \"identifier\n\n: \"16980690936778259e2a5-a97e-4c66-af8d-1908988c1c21\", \"pre\": [{ \"task\n\n: \"official_devcloud_autoTrigger\", \"sequence\": \"0\" }, { \"post\": null, \"depends_on\": [], \"run_always\": false } ] },\n\n: { \"domain_id\" : \"ce8df55870164338a72d7e828a966a2a\", \"is_system\" : false\n\n} } }
```

Example Responses

Status code: 200

OK

```
{
  "templatedId" : "ad8a26f8b19a4b83a8d92eb733b65476"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
```

```
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class CreatePipelineTemplateSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        CreatePipelineTemplateRequest request = new CreatePipelineTemplateRequest();
        request.withTenantId("{tenant_id}");
        PipelineTemplateDTO body = new PipelineTemplateDTO();
        body.withIsShowSource(true);
        body.withDomainId("ce8df55870164338a72d7e828a966a2a");
        body.withIsSystem(false);
        body.withDefinition("{\"stages\": [{\"name\": \"Stage_1\", \"sequence\": 0, \"jobs\": [\"stage_id\": 1698069093677, \"identifier\": \"16980691185419778b0f5-02cd-4bd3-a8cc-da825644add1\", \"name\": \"CodeCheck\", \"depends_on\": [], \"timeout\": \"\", \"timeout_unit\": \"\", \"steps\": [{\"name\": \"CodeCheck\", \"task\": \"official_devcloud_codeCheck_template\", \"sequence\": 0, \"inputs\": [{\"key\": \"language\", \"value\": \"Java\"}, {\"key\": \"module_or_template_id\", \"value\": \"d7dffaefb6d94c63a09cf141668356c7\"}], \"business_type\": \"Gate\", \"runtime_attribution\": \"agent\", \"identifier\": \"16980691136015f94b249-102d-44f2-abb5-02fa3ad9fae0\", \"multi_step_editable\": 0, \"official_task_version\": \"0.0.1\"}], \"resource\": {\"type\": \"system\", \"arch\": \"x86\"}], \"condition\": \"$ {{ completed() }}\", \"exec_type\": \"OCTOPUS_JOB\", \"sequence\": 0}], \"identifier\": \"16980690936778259e2a5-a97e-4c66-af8d-1908988c1c21\", \"pre\": [{\"task\": \"official_devcloud_autoTrigger\", \"sequence\": 0}], \"post\": null, \"depends_on\": [], \"run_always\": false}]}");
        body.withVariables("{}");
        body.withLanguage("none");
        body.withDescription("");
        body.withName("Creating a Pipeline Template-20231023215133");
        request.withBody(body);
        try {
            CreatePipelineTemplateResponse response = client.createPipelineTemplate(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = CreatePipelineTemplateRequest()
        request.tenant_id = "{tenant_id}"
        request.body = PipelineTemplateDTO(
            is_show_source=True,
            domain_id="ce8df55870164338a72d7e828a966a2a",
            is_system=False,
            definition="{\"stages\": [{\"name\": \"Stage_1\", \"sequence\": \"0\", \"jobs\":
[\"{\\\"stage_id\\\":1698069093677,\\\"identifier\\\":\\\"16980691185419778b0f5-02cd-4bd3-a8cc-
da825644add1\\\",\\\"name\\\":\\\"CodeCheck\\\",\\\"depends_on\\\":[],\\\"timeout\\\":\\\"\\\",\\\"timeout_unit\\\":\\\"\\\",\\\"steps\\\":
[\"{\\\"name\\\":\\\"CodeCheck\\\",\\\"task\\\":\\\"official_devcloud_codeCheck_template\\\",\\\"sequence\\\":0,\\\"inputs\\\":
[\"{\\\"key\\\":\\\"language\\\",\\\"value\\\":\\\"Java\\\"}\",
{\\\"key\\\":\\\"module_or_template_id\\\",\\\"value\\\":\\\"d7dffaefb6d94c63a09cf141668356c7\\\"}],\\\"business_type\\\":\\\"Gate\\\",\\\"ru
ntime_attribution\\\":\\\"agent\\\",\\\"identifier\\\":\\\"16980691136015f94b249-102d-44f2-
abb5-02fa3ad9fae0\\\",\\\"multi_step_editable\\\":0,\\\"official_task_version\\\":\\\"0.0.1\\\"}],\\\"resource\\\":\\\"{\\\"type\\\":\\\"system
\\\"\\\",\\\"arch\\\":\\\"x86\\\"}\",\\\"condition\\\":\\\"$
{{ completed() }}\\\",\\\"exec_type\\\":\\\"OCTOPUS_JOB\\\",\\\"sequence\\\":0}],\\\"identifier\\\":\\\"16980690936778259e2a5-
a97e-4c66-af8d-1908988c1c21\\\",\\\"pre\\\":
[\"{\\\"task\\\":\\\"official_devcloud_autoTrigger\\\",\\\"sequence\\\":0}],\\\"post\\\":null,\\\"depends_on\\\":[],\\\"run_always\\\":false}]]\",
            variables="",
            language="none",
            description="",
            name="Creating a Pipeline Template-20231023215133"
        )
        response = client.create_pipeline_template(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)
```

```
func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.CreatePipelineTemplateRequest{}
    request.TenantId = "{tenant_id}"
    var variablesVariables interface{} = "{}"
    descriptionPipelineTemplateDto := ""
    request.Body = &model.PipelineTemplateDto{
        IsShowSource: true,
        DomainId: "ce8df55870164338a72d7e828a966a2a",
        IsSystem: false,
        Definition: "{\"stages\": [{\"name\": \"Stage_1\", \"sequence\": \"0\", \"jobs\":
[\"stage_id\": \"1698069093677\", \"identifier\": \"16980691185419778b0f5-02cd-4bd3-a8cc-
da825644add1\", \"name\": \"CodeCheck\", \"depends_on\": [], \"timeout\": \"\", \"timeout_unit\": \"\", \"steps\":
[\"name\": \"CodeCheck\", \"task\": \"official_devcloud_codeCheck_template\", \"sequence\": \"0\", \"inputs\":
[\"key\": \"language\", \"value\": \"Java\"],
[\"key\": \"module_or_template_id\", \"value\": \"d7dffaefb6d94c63a09cf141668356c7\"], \"business_type\": \"Gate\", \"ru
ntime_attribution\": \"agent\", \"identifier\": \"16980691136015f94b249-102d-44f2-
abb5-02fa3ad9fae0\", \"multi_step_editable\": \"0\", \"official_task_version\": \"0.0.1\"], \"resource\": \"{\\\"type\\\": \\\"system
\\\", \\\"arch\\\": \\\"x86\\\"\", \"condition\": \"$
{{ completed() }}\", \"exec_type\": \"OCTOPUS_JOB\", \"sequence\": \"0\", \"identifier\": \"16980690936778259e2a5-
a97e-4c66-af8d-1908988c1c21\", \"pre\":
[\"task\": \"official_devcloud_autoTrigger\", \"sequence\": \"0\", \"post\": null, \"depends_on\": [], \"run_always\": false]]\",
        Variables: &variablesVariables,
        Language: \"none\",
        Description: &descriptionPipelineTemplateDto,
        Name: \"Creating a Pipeline Template-20231023215133\",
    }
    response, err := client.CreatePipelineTemplate(request)
    if err == nil {
        fmt.Printf(\"%+v\\n\", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK

Status Code	Description
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.1.4 Querying Template Details

Function

This API is used to query template details.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v5/{tenant_id}/api/pipeline-templates/{template_id}

Table 4-19 Path Parameters

Parameter	Mandatory	Type	Description
tenant_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Parameter	Mandatory	Type	Description
template_id	Yes	String	Definition: Template ID, which is the unique identifier of a template. Obtain the template ID by calling the API for querying templates . templates.id indicates the template ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-20 Response body parameters

Parameter	Type	Description
id	String	Definition: Template ID. Value range: The value consists of 32 characters, including digits and letters.
name	String	Parameter description: Template name. Value range: None.
icon	String	Parameter description: Template icon. Value range: None.

Parameter	Type	Description
manifest_version	String	Parameter description: Version. Value range: The default value is 3.0 .
language	String	Definition: Template language. Value range: • Java. • Python. • Node.js. • Go. • .NET. • cpp. • PHP. • Other. • None.
description	String	Parameter description: Template description. Value range: None.
is_system	Boolean	Definition: Whether the template is a system template. Value range: • true: The template is a system template. • false: The template is not a system template.
region	String	Parameter description: Template region. Value range: None.
domain_id	String	Definition: ID of the tenant to which the template belongs. Value range: The value consists of 32 characters, including digits and letters.

Parameter	Type	Description
variables	Array of CustomVariable objects	Definition: Custom parameter. Constraints: N/A Value range: N/A Default value: N/A
creator_id	String	Definition: Template creator ID. Value range: The value consists of 32 characters, including digits and letters.
updater_id	String	Definition: Template updater ID. Value range: The value consists of 32 characters, including digits and letters.
create_time	Integer	Parameter description: Creation time. Value range: None.
update_time	Integer	Parameter description: Update time. Value range: None.
is_collect	String	Definition: Whether to add the object to favorites. Value range: • true: Add the object to favorites. • false: Do not add the object to favorites.

Parameter	Type	Description
is_show_source	Boolean	Definition: Whether to display the pipeline source. Value range: • true: The pipeline source is displayed. • false: The pipeline source is not displayed.
definition	String	Definition: Template orchestration JSON file, including stages. Value range: N/A

Table 4-21 CustomVariable

Parameter	Type	Description
pipeline_id	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
name	String	Definition: Custom parameter name. Constraints: N/A Value range: Enter a maximum of 128 characters. Only letters, digits, and underscores (_) are supported. Default value: N/A

Parameter	Type	Description
sequence	Integer	Parameter description: Parameter sequence number, which starts from 1. Constraints: None. Value range: None. Default value: None.
type	String	Definition: Custom parameter type. Constraints: N/A Value range: • autoIncrement: auto-increment parameter. • enum: enumerated parameter. • string: string parameter. Default value: N/A
value	String	Parameter description: Default value of a custom parameter. Constraints: None. Value range: Up to 8192 characters. Default value: None.
is_secret	Boolean	Definition: Private parameter or not. Constraints: N/A Value range: • true: The parameter is private. • false: The parameter is not private. Default value: false.

Parameter	Type	Description
description	String	Parameter description: Parameter description. Constraints: None. Value range: Up to 1024 characters. Default value: None.
is_runtime	Boolean	Definition: Whether a parameter can be set at runtime. Constraints: N/A Value range: • true: The parameter can be set at runtime. • false: The parameter cannot be set at runtime. Default value: false.
limits	Array of objects	Parameter description: List of enumerated values. Constraints: None. Value range: Up to 1,024 characters. Default value: None.

Parameter	Type	Description
is_reset	Boolean	Definition: Whether to reset. If the auto-increment parameter is edited, the edited value is used. Otherwise, the last digit increases. Constraints: N/A Value range: • true: Use the edited parameter value. • false: Use the auto-increment parameter. Default value: false.
latest_value	String	Definition: Value of the parameter in the last run. Constraints: N/A Value range: Max. 8,192 characters. Default value: N/A
runtime_value	String	Definition: Input value of a parameter when the pipeline is executed. Constraints: N/A Value range: N/A Default value: N/A

Status code: 400

Table 4-22 Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

Querying Pipeline Template Details

```
GET https://{endpoint}/v5/a5f63758220947b7821e70ae2734c01d/api/pipeline-templates/  
deb18013bb6c4659b160b15fd7468644
```

Example Responses

Status code: 200

OK

```
{  
  "id" : "deb18013bb6c4659b160b15fd7468644",  
  "name" : "Creating a Pipeline Template-20230112115711",  
  "icon" : null,  
  "manifest_version" : "3.0",  
  "language" : "none",  
  "description" : "",  
  "is_system" : false,  
  "region" : "{region}",  
  "domain_id" : "70ffec613024477bbaf266128bd9778d",  
  "variables" : [ ],  
  "creator_id" : "5ffd41c9df9d4506862ce27e209bb106",  
  "updater_id" : "5ffd41c9df9d4506862ce27e209bb106",  
  "create_time" : 1673495851000,  
  "update_time" : 1673495851000,  
  "is_collect" : null,  
  "is_show_source" : true,  
  "definition" : "{\n  \"stages\": [\n    {\n      \"name\": \"Phase_1\",\n      \"sequence\": \"0\",\n      \"jobs\": [\n        {\n          \"stage_id\": \"1673495831907\",\n          \"identifier\": \"16734958501367554c26c-561b-4831-a906-e88316c8e674\",\n          \"name\": \"New Task\",\n          \"depends_on\": [ ],\n          \"timeout\": \"\",\n          \"timeout_unit\": \"\",\n          \"steps\": [ ],\n          \"exec_type\": \"AGENTLESS_JOB\",\n          \"sequence\": \"0\",\n          \"identifier\": \"0\",\n          \"pre\": [\n            {\n              \"task\": \"official_devcloud_autoTrigger\",\n              \"sequence\": \"0\",\n              \"post\": null,\n              \"depends_on\": [ ],\n              \"run_always\": false\n            }\n          ]\n        }\n      ]\n    }\n  ]\n}"
```

Status Codes

Status Code	Description
200	OK

Status Code	Description
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.1.5 Updating a Pipeline Template

Function

This API is used to update a pipeline template.

Calling Method

For details, see [Calling APIs](#).

URI

PUT /v5/{tenant_id}/api/pipeline-templates/{template_id}

Table 4-23 Path Parameters

Parameter	Mandatory	Type	Description
tenant_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Parameter	Mandatory	Type	Description
template_id	Yes	String	Definition: Template ID, which is the unique identifier of a template. Obtain the template ID by calling the API for querying templates . templates.id indicates the template ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-24 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Table 4-25 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Definition: Template name. Constraints: N/A Value range: N/A Default value: N/A
description	No	String	Definition: Template description. Constraints: N/A Value range: N/A Default value: N/A
language	Yes	String	Definition: Template language. Constraints: N/A Value range: N/A Default value: N/A
variables	No	Array of CustomVariable objects	Definition: Custom parameter. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
definition	Yes	String	Definition: Template orchestration JSON file, including stages. Constraints: N/A Value range: N/A Default value: N/A
is_system	Yes	Boolean	Definition: Whether the template is a system template. Constraints: N/A Value range: • true: The template is a system template. • false: The template is not a system template. Default value: N/A
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Parameter	Mandatory	Type	Description
is_show_source	Yes	Boolean	Definition: Whether to display the pipeline source. Constraints: N/A Value range: • true: Display the pipeline source. • false: Do not display the pipeline source. Default value: N/A

Table 4-26 CustomVariable

Parameter	Mandatory	Type	Description
pipeline_id	No	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Parameter	Mandatory	Type	Description
name	No	String	Definition: Custom parameter name. Constraints: N/A Value range: Enter a maximum of 128 characters. Only letters, digits, and underscores (_) are supported. Default value: N/A
sequence	No	Integer	Parameter description: Parameter sequence number, which starts from 1. Constraints: None. Value range: None. Default value: None.
type	No	String	Definition: Custom parameter type. Constraints: N/A Value range: • autoIncrement: auto-increment parameter. • enum: enumerated parameter. • string: string parameter. Default value: N/A

Parameter	Mandatory	Type	Description
value	No	String	Parameter description: Default value of a custom parameter. Constraints: None. Value range: Up to 8192 characters. Default value: None.
is_secret	No	Boolean	Definition: Private parameter or not. Constraints: N/A Value range: • true: The parameter is private. • false: The parameter is not private. Default value: false.
description	No	String	Parameter description: Parameter description. Constraints: None. Value range: Up to 1024 characters. Default value: None.

Parameter	Mandatory	Type	Description
is_runtime	No	Boolean	Definition: Whether a parameter can be set at runtime. Constraints: N/A Value range: • true: The parameter can be set at runtime. • false: The parameter cannot be set at runtime. Default value: false.
limits	No	Array of objects	Parameter description: List of enumerated values. Constraints: None. Value range: Up to 1,024 characters. Default value: None.
is_reset	No	Boolean	Definition: Whether to reset. If the auto-increment parameter is edited, the edited value is used. Otherwise, the last digit increases. Constraints: N/A Value range: • true: Use the edited parameter value. • false: Use the auto-increment parameter. Default value: false.

Parameter	Mandatory	Type	Description
latest_value	No	String	Definition: Value of the parameter in the last run. Constraints: N/A Value range: Max. 8,192 characters. Default value: N/A
runtime_value	No	String	Definition: Input value of a parameter when the pipeline is executed. Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-27 Response body parameters

Parameter	Type	Description
templateId	String	Definition: Template ID. Constraints: N/A Value range: N/A Default value: N/A

Status code: 400

Table 4-28 Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

```
PUT https://{endpoint}/v5/ce8df55870164338a72d7e828a966a2a/api/pipeline-templates/
ad8a26f8b19a4b83a8d92eb733b65476

{
  "name" : "Creating a Pipeline Template-20231023212159",
  "language" : "none",
  "description" : "",
  "is_system" : false,
  "domain_id" : "ce8df55870164338a72d7e828a966a2a",
  "variables" : [ ],
  "is_show_source" : true,
  "definition" : "{\n  \"stages\": [\n    {\n      \"name\": \"Stage_1\",\n      \"sequence\": \"0\",\n      \"jobs\": [\n        {\n          \"stage_id\": \"1698067319814\",\n          \"identifier\": \"16980673371452673e2a4-b3e1-4389-a145-fc57a4473137\",\n          \"name\": \"CloudBuild template\",\n          \"depends_on\": [ ],\n          \"timeout\": \"\",\n          \"timeout_unit\": \"\",\n          \"steps\": [\n            {\n              \"name\": \"CloudBuild template\",\n              \"task\": \"official_devcloud_cloudBuild_template\",\n              \"sequence\": \"0\",\n              \"inputs\": [\n                {\n                  \"key\": \"pipelineNumber\",\n                  \"value\": \"v1.0.0\",\n                  \"key\": \"artifactName\",\n                  \"value\": \"name\",\n                  \"key\": \"is_build_in\",\n                  \"value\": \"system\",\n                  \"key\": \"module_or_template_id\",\n                  \"value\": \"00057\",\n                  \"business_type\": \"Build\",\n                  \"runtime_attribution\": \"agent\",\n                  \"identifier\": \"1698067328741629de896-a67b-4c2a-be40-7f6531af2f19\",\n                  \"multi_step_editable\": \"0\",\n                  \"official_task_version\": \"0.0.1\",\n                  \"resource\": {\n                    \"type\": \"system\",\n                    \"arch\": \"x86\"\n                  },\n                  \"condition\": \"${ completed() }\",\n                  \"exec_type\": \"OCTOPUS_JOB\",\n                  \"sequence\": \"0\",\n                  \"identifier\": \"1698067635354dba15971-5277-48fe-a219-8cd578aa8773\",\n                  \"name\": \"CodeCheck\",\n                  \"task\": \"official_devcloud_codeCheck_template\",\n                  \"sequence\": \"0\",\n                  \"inputs\": [\n                    {\n                      \"key\": \"language\",\n                      \"value\": \"C/C++\",\n                      \"key\": \"module_or_template_id\",\n                      \"value\": \"d7dffae6b6d94c63a09cf141668356c7\",\n                      \"business_type\": \"Gate\",\n                      \"runtime_attribution\": \"agent\",\n                      \"identifier\": \"1698067631617e1847e52-06ff-429e-9bfa-492ae877f192\",\n                      \"multi_step_editable\": \"0\",\n                      \"official_task_version\": \"0.0.1\",\n                      \"resource\": {\n                        \"type\": \"system\",\n                        \"arch\": \"x86\"\n                      },\n                      \"condition\": \"completed()\",\n                      \"exec_type\": \"OCTOPUS_JOB\",\n                      \"sequence\": \"1\",\n                      \"identifier\": \"1698067319814bd28be5a-eb0c-4bdf-9ac5-4b441ef46ef9\",\n                      \"pre\": [\n                        {\n                          \"task\": \"official_devcloud_autoTrigger\",\n                          \"sequence\": \"0\",\n                          \"post\": null,\n                          \"depends_on\": [ ],\n                          \"run_always\": false\n                        }\n                      ]\n                    }\n                  ]\n                }\n              ]\n            }\n          ]\n        }\n      ]\n    }\n  }\n}"
```

Example Responses

Status code: 200

OK

```
{
  "templatedId" : "ad8a26f8b19a4b83a8d92eb733b65476"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class UpdatePipelineTemplateSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        UpdatePipelineTemplateRequest request = new UpdatePipelineTemplateRequest();
        request.withTenantId("{tenant_id}");
        request.withTemplateId("{template_id}");
        PipelineTemplateDTO body = new PipelineTemplateDTO();
        body.withIsShowSource(true);
        body.withDomainId("ce8df55870164338a72d7e828a966a2a");
        body.withIsSystem(false);
        body.withDefinition("{\"stages\": [{\"name\": \"Stage_1\", \"sequence\": \"0\", \"jobs\": [
        {\"stage_id\": \"1698067319814\", \"identifier\": \"16980673371452673e2a4-b3e1-4389-a145-
        fc57a4473137\", \"name\": \"CloudBuild template\", \"depends_on\": [], \"timeout\": \"\", \"timeout_unit\": \"\", \"steps\":
        [{\"name\": \"CloudBuild template\", \"task\": \"official_devcloud_cloudBuild_template\", \"sequence\": \"0\", \"inputs\":
        [{\"key\": \"pipelineNumber\", \"value\": \"v1.0.0\"}], \"key\": \"artifactName\", \"value\": \"name\"},
        {\"key\": \"is_build_in\", \"value\": \"system\"},
        {\"key\": \"module_or_template_id\", \"value\": \"00057\"}], \"business_type\": \"Build\", \"runtime_attribution\": \"agent\", \"ide
        ntifier\": \"1698067328741629de896-a67b-4c2a-
        be40-7f6531af2f19\", \"multi_step_editable\": \"0\", \"official_task_version\": \"0.0.1\"}], \"resource\": {\"type\": \"system
        \", \"arch\": \"x86\"}, \"condition\": \"${ completed() }\", \"exec_type\": \"OCTOPUS_JOB\", \"sequence\": \"0\",
        {\"identifier\": \"1698067635354dba15971-5277-48fe-
        a219-8cd578aa8773\", \"name\": \"CodeCheck\", \"task\": \"official_devcloud_codeCheck_template\", \"sequence\": \"0\", \"inp
        uts\": [{\"key\": \"language\", \"value\": \"C/C++\"},
        {\"key\": \"module_or_template_id\", \"value\": \"d7dffaefb6d94c63a09cf141668356c7\"}], \"business_type\": \"Gate\", \"ru
        ntime_attribution\": \"agent\", \"identifier\": \"1698067631617e1847e52-06ff-429e-9bfa-492ae877f192\", \"multi_step
        _editable\": \"0\", \"official_task_version\": \"0.0.1\"}], \"resource\": {\"type\": \"system\", \"arch
        \": \"x86\"}, \"condition\": \"completed()\", \"exec_type\": \"OCTOPUS_JOB\", \"sequence\": \"1\"}], \"identifier\": \"16980673198
        14bd28be5a-eb0c-4bdf-9ac5-4b441ef46ef9\", \"pre\":
        [{\"task\": \"official_devcloud_autoTrigger\", \"sequence\": \"0\"}, {\"post\": null, \"depends_on\": [], \"run_always\": false}]}]");
        body.withVariables("{}");
        body.withLanguage("none");
        body.withDescription("");
        body.withName("Creating a Pipeline Template-20231023212159");
        request.withBody(body);
        try {
```



```
        UpdatePipelineTemplateResponse response = client.updatePipelineTemplate(request);
        System.out.println(response.toString());
    } catch (ConnectionException e) {
        e.printStackTrace();
    } catch (RequestTimeoutException e) {
        e.printStackTrace();
    } catch (ServiceResponseException e) {
        e.printStackTrace();
        System.out.println(e.getHttpStatusCode());
        System.out.println(e.getRequestId());
        System.out.println(e.getErrorCode());
        System.out.println(e.getErrorMsg());
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = UpdatePipelineTemplateRequest()
        request.tenant_id = "{tenant_id}"
        request.template_id = "{template_id}"
        request.body = PipelineTemplateDTO(
            is_show_source=True,
            domain_id="ce8df55870164338a72d7e828a966a2a",
            is_system=False,
            definition="{
                'stages': [
                    {
                        'name': 'Stage_1',
                        'sequence': '0',
                        'jobs': [
                            {
                                'stage_id': '1698067319814',
                                'identifier': '16980673371452673e2a4-b3e1-4389-a145-fc57a4473137',
                                'name': 'CloudBuild template',
                                'depends_on': [],
                                'timeout': '',
                                'steps': [
                                    {
                                        'name': 'CloudBuild template',
                                        'task': 'official_devcloud_cloudBuild_template',
                                        'sequence': 0,
                                        'inputs': [
                                            {
                                                'key': 'pipelineNumber',
                                                'value': 'v1.0.0'
                                            },
                                            {
                                                'key': 'artifactName',
                                                'value': 'name'
                                            },
                                            {
                                                'key': 'is_build_in',
                                                'value': 'system'
                                            },
                                            {
                                                'key': 'module_or_template_id',
                                                'value': '00057'
                                            }
                                        ],
                                        'business_type': 'Build',
                                        'runtime_attribution': 'agent',
                                        'identifier': '1698067328741629de896-a67b-4c2a-be40-7f6531af2f19',
                                        'multi_step_editable': 0,
                                        'official_task_version': '0.0.1'
                                    },
                                    {
                                        'name': 'CodeCheck',
                                        'task': 'official_devcloud_codeCheck_template',
                                        'sequence': 0,
                                        'inputs': [
                                            {
                                                'key': 'language',
                                                'value': 'C/C++'
                                            },
                                            {
                                                'key': 'module_or_template_id',
                                                'value': 'd7dffaefb6d94c63a09cf141668356c7'
                                            }
                                        ],
                                        'business_type': 'Gate',
                                        'runtime_attribution': 'agent',
                                        'identifier': '1698067631617e1847e52-06ff-429e-9bfa-492ae877f192',
                                        'multi_step_editable': 0,
                                        'official_task_version': '0.0.1'
                                    }
                                ]
                            }
                        ]
                    }
                ],
                'condition': 'completed()',
                'exec_type': 'OCTOPUS_JOB',
                'sequence': 1,
                'identifier': '1698067319814bd28be5a-eb0c-4bdf-9ac5-4b441ef46ef9',
                'pre': [
                    {
                        'task': 'official_devcloud_autoTrigger',
                        'sequence': 0,
                        'post': null,
                        'depends_on': [],
                        'run_always': false
                    }
                ]
            }
        )
        request.post = null
        request.depends_on = []
        request.run_always = false
    except exceptions.ApiErrorException as e:
        print(e.getHttpStatusCode())
        print(e.getRequestId())
        print(e.getErrorCode())
        print(e.getErrorMsg())
```

```
variables="[]",
language="none",
description="",
name="Creating a Pipeline Template-20231023212159"
)
response = client.update_pipeline_template(request)
print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UpdatePipelineTemplateRequest{}
    request.TenantId = "{tenant_id}"
    request.TemplateId = "{template_id}"
    var variablesVariables interface{} = "[]"
    descriptionPipelineTemplateDto := ""
    request.Body = &model.PipelineTemplateDto{
        IsShowSource: true,
        DomainId: "ce8df55870164338a72d7e828a966a2a",
        IsSystem: false,
        Definition: "{ \"stages\": [{ \"name\": \"Stage_1\", \"sequence\": \"0\", \"jobs\":
        [{ \"stage_id\": \"1698067319814\", \"identifier\": \"16980673371452673e2a4-b3e1-4389-a145-
        fc57a4473137\", \"name\": \"CloudBuild template\", \"depends_on\": [], \"timeout\": \"\", \"timeout_unit\": \"\", \"steps\":
        [{ \"name\": \"CloudBuild template\", \"task\": \"official_devcloud_cloudBuild_template\", \"sequence\": \"0\", \"inputs\":
        [{ \"key\": \"pipelineNumber\", \"value\": \"v1.0.0\" }, { \"key\": \"artifactName\", \"value\": \"name\" },
        { \"key\": \"is_build_in\", \"value\": \"system\" },
        { \"key\": \"module_or_template_id\", \"value\": \"00057\" }, { \"business_type\": \"Build\", \"runtime_attribution\": \"agent\", \"ide
        ntifier\": \"1698067328741629de896-a67b-4c2a-
        be40-7f6531af2f19\", \"multi_step_editable\": \"0\", \"official_task_version\": \"0.0.1\" }], \"resource\": { \"type\": \"system
        \", \"arch\": \"x86_64\", \"condition\": \"${ completed() }\", \"exec_type\": \"OCTOPUS_JOB\", \"sequence\": \"0\",
        { \"identifier\": \"1698067635354dba15971-5277-48fe-
        a219-8cd578aa8773\", \"name\": \"CodeCheck\", \"task\": \"official_devcloud_codeCheck_template\", \"sequence\": \"0\", \"inp
        uts\": [{ \"key\": \"language\", \"value\": \"C/C++\" },
        { \"key\": \"module_or_template_id\", \"value\": \"d7dffaefb6d94c63a09cf141668356c7\" }], \"business_type\": \"Gate\", \"ru
        ntine_attribution\": \"agent\", \"identifier\": \"1698067631617e1847e52-06ff-429e-9bfa-492ae877f192\", \"multi_step
```

```
_editable":0,"official_task_version":"0.0.1"}],"resource":{"type":"system","arch":
\\":\\x86\\","condition":"completed()","exec_type":"OCTOPUS_JOB","sequence":1}},"identifier":"16980673198
14bd28be5a-eb0c-4bdf-9ac5-4b441ef46ef9","pre":
[{"task":"official_devcloud_autoTrigger","sequence":0},"post":null,"depends_on":[],"run_always":false}}],
  Variables: &variablesVariables,
  Language: "none",
  Description: &descriptionPipelineTemplateDto,
  Name: "Creating a Pipeline Template-20231023212159",
}
response, err := client.UpdatePipelineTemplate(request)
if err == nil {
    fmt.Printf("%+v\\n", response)
} else {
    fmt.Println(err)
}
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.1.6 Deleting a Pipeline Template

Function

This API is used to delete a pipeline template.

Calling Method

For details, see [Calling APIs](#).

URI

DELETE /v5/{tenant_id}/api/pipeline-templates/{template_id}

Table 4-29 Path Parameters

Parameter	Mandatory	Type	Description
tenant_id	Yes	String	Definition: Tenant ID, that is, domain ID of a user. Constraints: N/A Value range: The value consists of 32 characters, including only digits and letters. Default value: N/A
template_id	Yes	String	Definition: Template ID, which is the unique identifier of a template. Obtain the template ID by calling the API for querying templates . templates.id indicates the template ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-30 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200**Table 4-31** Response body parameters

Parameter	Type	Description
templateId	String	Definition: Template ID. Constraints: N/A Value range: N/A Default value: N/A

Status code: 400

Table 4-32 Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

```
DELETE https://{endpoint}/v5/ce8df55870164338a72d7e828a966a2a/pipeline-templates/  
8178e40e7525419596a2c02e0c12e690
```

Example Responses

Status code: 200

OK

```
{  
  "templateId" : "8178e40e7525419596a2c02e0c12e690"  
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;  
  
import com.huaweicloud.sdk.core.auth.ICredential;  
import com.huaweicloud.sdk.core.auth.BasicCredentials;  
import com.huaweicloud.sdk.core.exception.ConnectionException;  
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;  
import com.huaweicloud.sdk.core.exception.ServiceResponseException;  
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;  
import com.huaweicloud.sdk.codeartspipeline.v2.*;  
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;  
  
public class DeletePipelineTemplateSolution {  
  
    public static void main(String[] args) {  
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great  
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or  
        // environment variables and decrypted during use to ensure security.  
        // In this example, AK and SK are stored in environment variables for authentication. Before running  
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
        String ak = System.getenv("CLOUD_SDK_AK");  
        String sk = System.getenv("CLOUD_SDK_SK");  
    }  
}
```

```
ICredential auth = new BasicCredentials()
    .withAk(ak)
    .withSk(sk);

CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
    .withCredential(auth)
    .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
    .build();
DeletePipelineTemplateRequest request = new DeletePipelineTemplateRequest();
request.withTenantId("{tenant_id}");
request.withTemplateId("{template_id}");
try {
    DeletePipelineTemplateResponse response = client.deletePipelineTemplate(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = DeletePipelineTemplateRequest()
        request.tenant_id = "{tenant_id}"
        request.template_id = "{template_id}"
        response = client.delete_pipeline_template(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.DeletePipelineTemplateRequest{}
    request.TenantId = "{tenant_id}"
    request.TemplateId = "{template_id}"
    response, err := client.DeletePipelineTemplate(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.1.7 Adding a Pipeline Template to Favorites

Function

This API is used to add a pipeline template to favorites.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v5/{tenant_id}/api/pipeline-templates/{templateId}/favorite

Table 4-33 Path Parameters

Parameter	Mandatory	Type	Description
tenant_id	Yes	String	Parameter description: Tenant ID. Constraints: None. Value range: 32 characters, including only digits and letters. Default value: None.
templateId	Yes	String	Parameter description: Template ID. Constraints: None. Value range: 32 characters, including only digits and letters. Default value: None.

Table 4-34 Query Parameters

Parameter	Mandatory	Type	Description
flag	Yes	Boolean	Definition: Whether to add the object to favorites. Constraints: N/A Value range: • true: The object has been added to favorites. • false: The object is not added to favorites. Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-35 Response body parameters

Parameter	Type	Description
templateId	String	Definition: Template ID. Constraints: N/A Value range: N/A Default value: N/A

Example Requests

```
POST https://(endpoint)/v5/e2e18230a85d4d6ab0b56cb6d2246c18/api/pipeline-templates/  
d6e65b15f6d94fda85c6644e8136a1f7/favorite?flag=true =66d40ba4e3da4505aaaf7e9de9860b6e
```

Example Responses

Status code: 200

Response body.

```
{  
  "templateId" : "d6e65b15f6d94fda85c6644e8136a1f7"  
}
```

Status Codes

Status Code	Description
200	Response body.

Error Codes

See [Error Codes](#).

4.2 Pipeline Management

4.2.1 Starting a Pipeline

Function

This API is used to start a pipeline.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v5/{project_id}/api/pipelines/{pipeline_id}/run

Table 4-36 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-37 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Table 4-38 Request body parameters

Parameter	Mandatory	Type	Description
sources	No	Array of sources objects	Parameter description: Code source information list. Constraints: N/A Value range: N/A Default value: N/A
description	No	String	Definition: Pipeline running description. Constraints: N/A Value range: Max. 1,024 characters. Default value: N/A

Parameter	Mandatory	Type	Description
variables	No	Array of variables objects	Definition: Custom parameters. Constraints: N/A Value range: N/A Default value: N/A
choose_jobs	No	Array of strings	Parameter description: Pipeline jobs selected to run. Constraints: N/A Value range: N/A Default value: N/A
choose_stages	No	Array of strings	Parameter description: Selected pipeline stages. The priority is higher than that of choose_jobs . That is, if a stage is not selected, jobs (selected in choose_jobs) under this stage are ignored. Constraints: N/A. Value Range: N/A. Default value: N/A.

Table 4-39 sources

Parameter	Mandatory	Type	Description
type	Yes	String	Definition: Pipeline source type. Currently, code and artifact are supported. Constraints: N/A Value range: N/A Default value: N/A
params	No	params object	Definition: Pipeline source parameters. Constraints: N/A Value range: N/A Default value: N/A

Table 4-40 params

Parameter	Mandatory	Type	Description
git_type	Yes	String	Definition: Code repository type. Constraints: N/A Value range: • CodeArts Repo. • Gitee. • GitHub. • GitCode. • GitLab. Default value: N/A

Parameter	Mandatory	Type	Description
alias	No	String	Parameter description: Code repository alias. The alias is user-defined and is used to distinguish system parameters when there are multiple repositories. For example, A_REPO_COMMIT_ID, B_REPO_COMMIT_ID. Constraints: N/A. Value Range: N/A. Default value: N/A.
codehub_id	No	String	Definition: ID of a CodeArts Repo repository. You can obtain the ID by calling the API for querying a code repository. Constraints: N/A Value range: N/A Default value: N/A
default_branch	No	String	Parameter description: Default branch of the code repository for pipeline execution. Constraints: None. Value range: None. Default value: None.

Parameter	Mandatory	Type	Description
git_url	Yes	String	Parameter description: HTTPS address of the Git repository, for example, https://example.com/CloudPipelinezycs00001/2000.git. Constraints: None. Value range: None. Default value: None.
endpoint_id	No	String	Definition: Code source endpoint ID. Obtain the ID by calling the API for querying endpoints . endpoints.uuid indicates the endpoint ID. Constraints: N/A Value range: N/A Default value: N/A
build_params	No	build_params object	Definition: Pipeline build parameters. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
change_request_ids	No	Array of strings	Definition: Change IDs of the change-triggered pipeline. Obtain the ID by calling the API for querying changes . data.id indicates the pipeline ID. Constraints: N/A Value range: N/A Default value: N/A

Table 4-41 build_params

Parameter	Mandatory	Type	Description
build_type	Yes	String	Definition: Code repository trigger type. The options include branch (triggered by a branch) and tag (triggered by a tag). Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
event_type	No	String	Definition: Pipeline trigger mode. • Manual: triggered manually. • Scheduler: triggered by a scheduled task. • MR: triggered by an MR. • Push: triggered by a push event. • CreateTag: triggered by a tag. • Issue: triggered by an issue. • Note: triggered by a comment. Constraints: N/A Value range: N/A Default value: N/A
target_branch	No	String	Parameter description: Branch that triggers the pipeline execution. Constraints: None. Value range: None. Default value: None.
tag	No	String	Parameter description: Tag for triggering a pipeline. Constraints: N/A Value range: N/A Default value: N/A

Table 4-42 variables

Parameter	Mandatory	Type	Description
name	Yes	String	Parameter description: Parameter name. Constraints: None. Value range: None. Default value: None.
value	Yes	String	Parameter description: Parameter value. Constraints: N/A Value range: Max. 8192 characters. Default value: N/A

Response Parameters

Status code: 200

Table 4-43 Response body parameters

Parameter	Type	Description
pipeline_run_id	String	Definition: Pipeline run ID. The return value of the API for starting a pipeline is the pipeline run ID. Value range: The value consists of 32 characters, including only digits and letters.

Example Requests

Start a pipeline.

The specified branch is master, and the parameter is key:val.

```
POST https://{endpoint}/v5/54f90b75fc1447b1b65e8d3a9f77923d/api/pipelines/  
e5460d1d403146a1935c2d4b68ef506c/run
```

```
{
  "sources" : [ {
    "type" : "code",
    "params" : {
      "git_type" : "codehub",
      "codehub_id" : "2111699716",
      "default_branch" : "test-lbdsb11",
      "git_url" : "https://example.com/clsyz00001/111.git",
      "build_params" : {
        "build_type" : "branch",
        "event_type" : "Manual",
        "target_branch" : "test-lbdsb11"
      }
    }
  } ],
  "description" : "Pipeline running description.",
  "variables" : [ {
    "name" : "key",
    "value" : "val"
  } ],
  "choose_jobs" : [ "16772939480734f4abbc4-b3b9-4235-82c2-46559434cbd4" ]
}
```

Example Responses

Status code: 200

OK

```
{
  "pipeline_run_id" : "ad6b7f66283a45be9c1f82b06c831e59"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

Start a pipeline.

The specified branch is master, and the parameter is key:val.

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

import java.util.List;
import java.util.ArrayList;

public class RunPipelineSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
```

```
String sk = System.getenv("CLOUD_SDK_SK");

ICredential auth = new BasicCredentials()
    .withAk(ak)
    .withSk(sk);

CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
    .withCredential(auth)
    .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
    .build();
RunPipelineRequest request = new RunPipelineRequest();
request.withProjectId("{project_id}");
request.withPipelineId("{pipeline_id}");
RunPipelineDTO body = new RunPipelineDTO();
List<String> listbodyChooseJobs = new ArrayList<>();
listbodyChooseJobs.add("16772939480734f4abb4-b3b9-4235-82c2-46559434cbd4");
List<RunPipelineDTOVariables> listbodyVariables = new ArrayList<>();
listbodyVariables.add(
    new RunPipelineDTOVariables()
        .withName("key")
        .withValue("val")
);
RunPipelineDTOParamsBuildParams buildParamsParams = new RunPipelineDTOParamsBuildParams();
buildParamsParams.withBuildType("branch")
    .withTargetBranch("test-lbdsb11")
    .withEventType("Manual");
RunPipelineDTOParams paramsSources = new RunPipelineDTOParams();
paramsSources.withGitType("codehub")
    .withCodehubId("2111699716")
    .withDefaultBranch("test-lbdsb11")
    .withGitUrl("https://example.com/clsyz00001/111.git")
    .withBuildParams(buildParamsParams);
List<RunPipelineDTOSources> listbodySources = new ArrayList<>();
listbodySources.add(
    new RunPipelineDTOSources()
        .withType("code")
        .withParams(paramsSources)
);
body.withChooseJobs(listbodyChooseJobs);
body.withVariables(listbodyVariables);
body.withDescription("Pipeline running description.");
body.withSources(listbodySources);
request.withBody(body);
try {
    RunPipelineResponse response = client.runPipeline(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

Start a pipeline.

The specified branch is master, and the parameter is key:val.

```
# coding: utf-8

import os
```

```
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = RunPipelineRequest()
        request.project_id = "{project_id}"
        request.pipeline_id = "{pipeline_id}"
        listChooseJobsbody = [
            "16772939480734f4abbc4-b3b9-4235-82c2-46559434cbd4"
        ]
        listVariablesbody = [
            RunPipelineDTOVariables(
                name="key",
                value="val"
            )
        ]
        buildParamsParams = RunPipelineDTOParamsBuildParams(
            build_type="branch",
            target_branch="test-lbdsb11",
            event_type="Manual"
        )
        paramsSources = RunPipelineDTOParams(
            git_type="codehub",
            codehub_id="2111699716",
            default_branch="test-lbdsb11",
            git_url="https://example.com/clsys00001/111.git",
            build_params=buildParamsParams
        )
        listSourcesbody = [
            RunPipelineDTOSources(
                type="code",
                params=paramsSources
            )
        ]
        request.body = RunPipelineDTO(
            choose_jobs=listChooseJobsbody,
            variables=listVariablesbody,
            description="Pipeline running description.",
            sources=listSourcesbody
        )
        response = client.run_pipeline(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

Start a pipeline.

The specified branch is master, and the parameter is key:val.

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.RunPipelineRequest{}
    request.ProjectId = "{project_id}"
    request.PipelineId = "{pipeline_id}"
    var listChooseJobsbody = []string{
        "16772939480734f4abbc4-b3b9-4235-82c2-46559434cbd4",
    }
    var listVariablesbody = []model.RunPipelineDtoVariables{
        {
            Name: "key",
            Value: "val",
        },
    }
    targetBranchBuildParams:= "test-lbdsb11"
    eventTypeBuildParams:= "Manual"
    buildParamsParams := &model.RunPipelineDtoParamsBuildParams{
        BuildType: "branch",
        TargetBranch: &targetBranchBuildParams,
        EventType: &eventTypeBuildParams,
    }
    codehubIdParams:= "2111699716"
    defaultBranchParams:= "test-lbdsb11"
    paramsSources := &model.RunPipelineDtoParams{
        GitType: "codehub",
        CodehubId: &codehubIdParams,
        DefaultBranch: &defaultBranchParams,
        GitUrl: "https://example.com/clsy00001/111.git",
        BuildParams: buildParamsParams,
    }
    var listSourcesbody = []model.RunPipelineDtoSources{
        {
            Type: "code",
            Params: paramsSources,
        },
    }
    descriptionRunPipelineDto:= "Pipeline running description."
    request.Body = &model.RunPipelineDto{
        ChooseJobs: &listChooseJobsbody,
        Variables: &listVariablesbody,
    }
}
```



```
        Description: &descriptionRunPipelineDto,  
        Sources: &listSourcesbody,  
    }  
    response, err := client.RunPipeline(request)  
    if err == nil {  
        fmt.Printf("%+v\n", response)  
    } else {  
        fmt.Println(err)  
    }  
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.2.2 Obtaining Pipeline Statuses in Batches

Function

This API is used to obtain pipeline status in batches. Only the data with execution records is returned.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v5/{project_id}/api/pipelines/status

Table 4-44 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-45 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Table 4-46 Request body parameters

Parameter	Mandatory	Type	Description
[items]	Yes	Array of strings	Definition: Pipeline ID list. Obtain an ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Value range: The value consists of 32 characters, including only digits and letters.

Response Parameters

Status code: 200

Table 4-47 Response body parameters

Parameter	Type	Description
[items]	Array of PipelineLatestRun objects	Definition: Pipeline and its latest running information. Value range: N/A

Table 4-48 PipelineLatestRun

Parameter	Type	Description
pipeline_id	String	Parameter description: Pipeline ID. Value range: 32 characters, including only digits and letters.
pipeline_run_id	String	Parameter description: Pipeline run ID. Value range: 32 characters, including only digits and letters.

Parameter	Type	Description
executor_id	String	Parameter description: Executor ID. Value range: 32 characters, including only digits and letters.
executor_name	String	Parameter description: Executor name. Value range: None.
stage_status_list	Array of stage_status_list objects	Parameter description: Stage status information, including the detailed status information of each stage. Constraints: N/A
status	String	Definition: Pipeline run status. Value range: • COMPLETED: The instance is completed. • RUNNING: The instance is running. • FAILED: The instance failed. • CANCELED: The instance is canceled. • PAUSED: The instance is paused. • SUSPEND: The instance is suspended. • IGNORED: The instance is ignored.
run_number	Integer	Parameter description: Pipeline running sequence number. Value range: No less than 1.

Parameter	Type	Description
trigger_type	String	Definition: Trigger type. Value range: • Manual: triggered manually. • Scheduler: triggered by a scheduled task. • MR: triggered by an MR. • Push: triggered by a push event. • CreateTag: triggered by a tag. • Issue: triggered by an issue. • Note: triggered by a comment.
build_params	build_params object	Parameter description: Build parameters. Value range: None.
artifact_params	artifact_params object	Parameter description: Artifact parameters. Value range: None.
start_time	Long	Definition: Pipeline start time. Value range: N/A
end_time	Long	Definition: Pipeline end time. Value range: N/A
modify_url	String	Parameter description: Address of the editing page. Value range: None.
detail_url	String	Parameter description: Address of the details page. Value range: None.

Table 4-49 stage_status_list

Parameter	Type	Description
name	String	Parameter description: Stage name. Value range: Enter only letters, digits, hyphens (-), underscores (_), commas (,), semicolons (;), colons (:), periods (.), slashes (/), parentheses (), and spaces. The value cannot start or end with a space, and the length is 1128 characters.
sequence	Integer	Parameter description: Stage sequence number. The value 0 indicates the first pipeline stage. Value range: No less than 0 .
status	String	Definition: Pipeline stage status. Value range: • INIT: The stage is being initialized. • QUEUED: The stage is queuing. • RUNNING: The stage is running. • CANCELED: The stage is canceled. • COMPLETED: The stage is completed. • FAILED: The stage is failed. • SKIPPED: The stage is skipped. • IGNORED: The stage is ignored. • PAUSED: The stage is paused. • SUSPEND: The stage is suspended. • ASYNC_RUNNING: The stage is running asynchronously. • ASYNC_FAILED: The stage failed during asynchronous execution. • UNSELECTED: The stage is unselected. • REDISPATCH: The stage is rescheduled.

Parameter	Type	Description
start_time	String	Parameter description: Stage start time. Value range: None.
end_time	String	Parameter description: Stage end time. Value range: None.

Table 4-50 build_params

Parameter	Type	Description
action	String	Definition: Merge request type. Value range: • open: The merge request is opened. • reopen: The merge request is reopened. • update: The merge request is updated. • merge: The merge request is merged.
build_type	String	Definition: Triggered by a branch or a tag. Value range: • branch: triggered by a branch. • tag: triggered by a tag.
commit_id	String	Definition: Code repository commit ID. Value range: The value contains 40 characters.

Parameter	Type	Description
event_type	String	Definition: Type of a running event. Value range: • Manual: triggered manually. • Scheduler: triggered by a scheduled task. • MR: triggered by an MR. • Push: triggered by a push event. • CreateTag: triggered by a tag. • Issue: triggered by an issue. • Note: triggered by a comment.
merge_id	String	Parameter description: Merge request ID. Value range: None.
message	String	Parameter description: Code commit message. Value range: None.
source_branch	String	Parameter description: Source branch. Value range: None.
tag	String	Parameter description: Tag. Value range: None.
target_branch	String	Parameter description: Target branch. Value range: None.
codehub_id	String	Parameter description: Repo code repository ID. Value range: None.

Parameter	Type	Description
git_url	String	Parameter description: HTTPS address of the code repository. Value range: None.
source_codehub_id	String	Parameter description: ID of the source Repo code repository. Value range: None.
source_codehub_url	String	Parameter description: Address of the source Repo code repository. Value range: None.
source_codehub_http_url	String	Parameter description: HTTP address of the source Repo code repository. Value range: None.

Table 4-51 artifact_params

Parameter	Type	Description
version	String	Parameter description: Package version. Value range: None.
branch_filter	String	Parameter description: Branch filter. Value range: None.
package_name	String	Parameter description: Package name. Value range: None.

Parameter	Type	Description
organization	String	Parameter description: Docker organization. Value range: None.

Example Requests

Obtaining Pipeline Statuses in Batches

The pipeline ID is d19799d619424b2bb2625ec2d93ea087.

```
POST https://{endpoint}/v5/54f90b75fc1447b1b65e8d3a9f77923d/api/pipelines/status
[ "d19799d619424b2bb2625ec2d93ea087" ]
```

Example Responses

Status code: 200

OK

```
[ {
  "pipeline_id" : "d19799d619424b2bb2625ec2d93ea087",
  "pipeline_run_id" : "ad6b7f66283a45be9c1f82b06c831e59",
  "executor_id" : "847a5317086c41798469d0868535943a",
  "executor_name" : "Beta environment account",
  "stage_status_list" : [ {
    "name" : "Phase_1",
    "sequence" : 0,
    "status" : "FAILED",
    "start_time" : "2023-03-04 16:48:09",
    "end_time" : "2023-03-04 16:50:11"
  } ],
  "status" : "FAILED",
  "run_number" : 2,
  "trigger_type" : "Manual",
  "build_params" : {
    "action" : null,
    "build_type" : "branch",
    "commit_id" : "fc93c34f906aeb1cc031e3f6f8b2baeac078ae4b",
    "event_type" : "Manual",
    "merge_id" : null,
    "message" : "init",
    "source_branch" : null,
    "tag" : null,
    "target_branch" : "test-lbdsb11",
    "codehub_id" : "2111699716",
    "git_url" : "https://example.com/clsyz00001/111.git"
  },
  "artifact_params" : null,
  "start_time" : 1677919688000,
  "end_time" : 1677919811000
} ]
```

SDK Sample Code

The SDK sample code is as follows.

Java

Obtaining Pipeline Statuses in Batches

The pipeline ID is d19799d619424b2bb2625ec2d93ea087.

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

import java.util.List;
import java.util.ArrayList;

public class BatchShowPipelinesLatestStatusSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        BatchShowPipelinesLatestStatusRequest request = new BatchShowPipelinesLatestStatusRequest();
        request.withProjectId("{project_id}");
        List<String> listbodyBody = new ArrayList<>();
        listbodyBody.add("d19799d619424b2bb2625ec2d93ea087");
        request.withBody(listbodyBody);
        try {
            BatchShowPipelinesLatestStatusResponse response =
client.batchShowPipelinesLatestStatus(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

Obtaining Pipeline Statuses in Batches

The pipeline ID is d19799d619424b2bb2625ec2d93ea087.

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = BatchShowPipelinesLatestStatusRequest()
        request.project_id = "{project_id}"
        listBodybody = [
            "d19799d619424b2bb2625ec2d93ea087"
        ]
        request.body = listBodybody
        response = client.batch_show_pipelines_latest_status(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

Obtaining Pipeline Statuses in Batches

The pipeline ID is d19799d619424b2bb2625ec2d93ea087.

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewClient(auth, region)
```

```
client := codeartspipeline.NewCodeArtsPipelineClient(  
    codeartspipeline.CodeArtsPipelineClientBuilder().  
        WithRegion(region.ValueOf("<YOUR REGION>")).  
        WithCredential(auth).  
        Build())  
  
request := &model.BatchShowPipelinesLatestStatusRequest{  
    request.ProjectId = "{project_id}"  
    var listBodybody = []string{  
        "d19799d619424b2bb2625ec2d93ea087",  
    }  
    request.Body = &listBodybody  
    response, err := client.BatchShowPipelinesLatestStatus(request)  
    if err == nil {  
        fmt.Printf("%+v\n", response)  
    } else {  
        fmt.Println(err)  
    }  
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.2.3 Obtaining Pipeline Status/Obtaining Pipeline Execution Details

Function

This API is used to obtain the pipeline status/pipeline execution details. Only the data with execution records is returned.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v5/{project_id}/api/pipelines/{pipeline_id}/pipeline-runs/detail

Table 4-52 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Table 4-53 Query Parameters

Parameter	Mandatory	Type	Description
pipeline_run_id	No	String	Definition: Pipeline run ID. The return value of the API for running a pipeline is the pipeline run ID. Constraints: N/A Value range: The value consists of 32 characters, including only digits and letters. Default value: N/A

Request Parameters

Table 4-54 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-55 Response body parameters

Parameter	Type	Description
id	String	Definition: Pipeline run ID. The return value of the API for starting a pipeline is the pipeline run ID. Value range: The value consists of 32 characters, including only digits and letters.
pipeline_id	String	Parameter description: Pipeline ID. Value range: 32 characters, including only digits and letters.
manifest_version	String	Parameter description: Pipeline version. Value range: The default value is 3.0 .
name	String	Parameter description: Pipeline name. Value range: The value can contain only letters, digits, hyphens (-), and underscores (_). The length is 1128 characters.
description	String	Definition: Pipeline running description. Value range: Max. 1,024 characters.
is_publish	Boolean	Definition: Whether the pipeline is a change-triggered pipeline. Value range: • true: The pipeline is a change-triggered pipeline. • false: The pipeline is not a change-triggered pipeline.

Parameter	Type	Description
executor_id	String	Definition: Operator ID, which is the user ID. Value range: The value consists of 32 characters, including only digits and letters.
executor_name	String	Parameter description: Executor name. Value range: None.
status	String	Definition: Pipeline run status. Value range: • COMPLETED: The instance is completed. • RUNNING: The instance is running. • FAILED: The instance failed. • CANCELED: The instance is canceled. • PAUSED: The instance is paused. • SUSPEND: The instance is suspended. • IGNORED: The instance is ignored.
trigger_type	String	Definition: Pipeline trigger type. • Manual: triggered manually. • Scheduler: triggered by a scheduled task. • MR: triggered by an MR. • Push: triggered by a push event. • CreateTag: triggered by a tag. • Issue: triggered by an issue. • Note: triggered by a comment. Value range: N/A
run_number	Integer	Parameter description: Pipeline running sequence number. Value range: No less than 1.

Parameter	Type	Description
start_time	Long	Definition: Pipeline start time. Value range: N/A
end_time	Long	Definition: Pipeline end time. Value range: N/A
stages	Array of StageRun objects	Parameter description: Stage running information, including the detailed running information of each stage. Constraints: N/A.
domain_id	String	Definition: Tenant ID, that is, domain ID of a user account. Value range: The value consists of 32 characters, including only digits and letters.
project_id	String	Parameter description: Project ID. Value range: 32 characters, including only digits and letters.
region	String	Parameter description: Region. Value range: None.
component_id	String	Definition: Microservice ID. Obtain the ID by calling the API for querying microservices . data.id indicates the microservice ID. Value range: N/A

Parameter	Type	Description
language	String	Parameter description: Language. Currently, only Chinese and English are supported. Value range: zh-cn, en-us.
sources	Array of RunPipelineSource objects	Parameter description: Pipeline source information. Value range: None.
artifacts	Array of PackageInfo objects	Parameter description: Artifacts after running a pipeline. Value range: None.
subject_id	String	Definition: Pipeline run ID. The return value of the API for starting a pipeline is the pipeline run ID. Value range: N/A
group_id	String	Definition: Group ID. Value range: The value consists of 32 characters, including digits and letters.
group_name	String	Parameter description: Group name. Value range: None.
detail_url	String	Parameter description: Address of the details page. Value range: None.
current_system_time	Long	Parameter description: Current system time. Value range: None.

Table 4-56 StageRun

Parameter	Type	Description
id	String	Definition: Stage ID. Value range: The value consists of 32 characters, including digits and letters.
category	String	Parameter description: Stage type. Value range: None.
name	String	Parameter description: Stage name. Value range: Enter only letters, digits, hyphens (-), underscores (_), commas (,), semicolons (;), colons (:), periods (.), slashes (/), parentheses (), and spaces. The name cannot start or end with a space, and the length is 1128 characters.
identifier	String	Parameter description: Unique identifier of a stage. Value range: None.
run_always	Boolean	Definition: Whether to always run. Value range: • true: always run. • false: not always run.
parallel	String	Parameter description: Whether to execute jobs in parallel. Value range: None.
is_select	Boolean	Definition: Selected or not. Value range: • true: selected. • false: not selected.

Parameter	Type	Description
sequence	Integer	Parameter description: Serial number. Value range: No less than 0.
depends_on	Array of strings	Definition: Identifier of the dependency stage. Value range: N/A
condition	String	Parameter description: Running conditions. Value range: None.
status	String	Definition: Status. Value range: • INIT: The stage is being initialized. • QUEUED: The stage is queuing. • RUNNING: The stage is running. • CANCELED: The stage is canceled. • COMPLETED: The stage is completed. • FAILED: The stage is failed. • SKIPPED: The stage is skipped. • IGNORED: The stage is ignored. • PAUSED: The stage is paused. • SUSPEND: The stage is suspended. • ASYNC_RUNNING: The stage is running asynchronously. • ASYNC_FAILED: The pipeline failed during asynchronous execution. • UNSELECTED: The stage is unselected. • REDISPATCH: The stage is rescheduled.
start_time	Long	Definition: Stage start time. Value range: N/A

Parameter	Type	Description
end_time	Long	Definition: Stage end time. Value range: N/A
pre	Array of StepRun objects	Parameter description: Stage entry. Value range: None.
post	Array of StepRun objects	Parameter description: Stage exit. Value range: None.
jobs	Array of JobRun objects	Definition: Jobs. Value range: N/A

Table 4-57 JobRun

Parameter	Type	Description
id	String	Parameter description: Job ID. Value range: None.
category	String	Parameter description: Job type. Value range: None.
sequence	Integer	Parameter description: Serial number. Value range: None.

Parameter	Type	Description
async	String	Definition: Asynchronous or not. Value range: • true: asynchronous. • false: non-asynchronous.
name	String	Parameter description: Job name. Value range: None.
identifier	String	Parameter description: Unique identifier of a job. Value range: None.
depends_on	Array of strings	Parameter description: Dependency. Value range: None.
condition	String	Parameter description: Running conditions. Value range: None.
resource	String	Parameter description: Execution resources. Value range: None.
is_select	Boolean	Definition: Selected or not. Value range: • true: selected. • false: not selected.
timeout	String	Parameter description: Job timeout settings. Value range: None.

Parameter	Type	Description
last_dispatch_id	String	Parameter description: ID of the job delivered last time. Value range: None.
status	String	Definition: Status. Value range: • INIT: The stage is being initialized. • QUEUED: The stage is queuing. • RUNNING: The stage is running. • CANCELED: The stage is canceled. • COMPLETED: The stage is completed. • FAILED: The stage is failed. • SKIPPED: The stage is skipped. • IGNORED: The stage is ignored. • PAUSED: The stage is paused. • SUSPEND: The stage is suspended. • ASYNC_RUNNING: The stage is running asynchronously. • ASYNC_FAILED: The pipeline failed during asynchronous execution. • UNSELECTED: The stage is unselected. • REDISPATCH: The job is rescheduled.
message	String	Parameter description: Error message. Value range: None.
start_time	Long	Definition: Job start time. Value range: N/A
end_time	Long	Definition: Job end time. Value range: N/A

Parameter	Type	Description
steps	Array of StepRun objects	Parameter description: Step. Value range: None.
exec_id	String	Parameter description: Job execution ID. Value range: None.

Table 4-58 StepRun

Parameter	Type	Description
name	String	Parameter description: Step name. Value range: None.
task	String	Parameter description: Step extension name. Value range: None.
business_type	String	Definition: Extension type. Value range: • Normal. • Build. • Test. • Check. • Deploy.
inputs	Array of inputs objects	Parameter description: Enter a parameter. Value range: None.
sequence	Integer	Parameter description: Serial number. Value range: None.

Parameter	Type	Description
official_task_version	String	Parameter description: Official extension version. Value range: None.
identifier	String	Parameter description: Unique identifier. Value range: None.
multi_step_editable	Integer	Definition: Editable parameter or not. Value range: • true: editable. • false: not editable.
id	String	Definition: Step ID. Value range: The value consists of 32 characters, including digits and letters.
endpoint_ids	Array of strings	Parameter description: Endpoint ID list. Value range: None.
last_dispatch_id	String	Definition: ID of the last delivered task. Value range: The value consists of 32 characters, including digits and letters.
status	String	Definition: Status. Value range: • RUNNING: Running. • CANCELED: The stage is canceled. • COMPLETED: The stage is completed. • FAILED: Failed.

Parameter	Type	Description
message	String	Parameter description: Error message. Value range: None.
start_time	Long	Definition: Step start time. Value range: N/A
end_time	Long	Definition: Step end time. Value range: N/A

Table 4-59 inputs

Parameter	Type	Description
key	String	Parameter description: Enter the parameter name. Value range: None.
value	Object	Parameter description: Enter the parameter value. Value range: None.

Table 4-60 RunPipelineSource

Parameter	Type	Description
type	String	Parameter description: Source type. Value range: Currently, the code type is supported.
params	params object	Parameter description: Code source parameters. Value range: N/A

Table 4-61 params

Parameter	Type	Description
git_type	String	Definition: Code repository type. Value range: • CodeArts Repo. • Gitee. • GitHub. • GitCode. • GitLab.
git_url	String	Parameter description: HTTPS address of the code repository. Value range: None.
ssh_git_url	String	Parameter description: SSH address of the code repository. Value range: None.
web_url	String	Parameter description: Address of the code repository page. Value range: None.
repo_name	String	Parameter description: Code repository name. Value range: None.
default_branch	String	Parameter description: Default branch. Value range: None.
endpoint_id	String	Parameter description: Endpoint ID. Value range: None.

Parameter	Type	Description
codehub_id	String	Parameter description: Repo code repository ID. Value range: None.
alias	String	Parameter description: Code repository alias. Value range: None.
build_params	build_params object	Parameter description: Build parameters. Value range: N/A

Table 4-62 build_params

Parameter	Type	Description
action	String	Definition: Merge request type. Value range: • open: The merge request is opened. • reopen: The merge request is reopened. • update: The merge request is updated. • merge: The merge request is merged.
build_type	String	Definition: Triggered by a branch or a tag. Value range: • branch: triggered by a branch. • tag: triggered by a tag.
commit_id	String	Parameter description: Code repository commit ID. Value range: None.

Parameter	Type	Description
event_type	String	Definition: CodeArts project ID. Value range: • Manual: triggered manually. • Scheduler: triggered by a scheduled task. • MR: triggered by an MR. • Push: triggered by a push event. • CreateTag: triggered by a tag. • Issue: triggered by an issue. • Note: triggered by a comment.
merge_id	String	Parameter description: Merge request ID. Value range: None.
message	String	Parameter description: Code commit message. Value range: None.
source_branch	String	Parameter description: Source branch. Value range: None.
tag	String	Parameter description: Tag. Value range: None.
target_branch	String	Parameter description: Target branch. Value range: None.
codehub_id	String	Parameter description: Repo code repository ID. Value range: None.

Parameter	Type	Description
source_codehub_id	String	Parameter description: ID of the source Repo code repository. Value range: None.
source_codehub_url	String	Parameter description: Address of the source Repo code repository. Value range: None.
source_codehub_http_url	String	Parameter description: HTTP address of the source Repo code repository. Value range: None.

Table 4-63 PackageInfo

Parameter	Type	Description
name	String	Parameter description: Artifact name. Value range: None.
packageType	String	Parameter description: Artifact type. Value range: None.
version	String	Parameter description: Artifact version number. Value range: None.
downloadUrl	String	Parameter description: Artifact download address. Value range: None.

Example Requests

```
GET https://{endpoint}/v5/54f90b75fc1447b1b65e8d3a9f77923d/api/pipelines/
e5460d1d403146a1935c2d4b68ef506c/pipeline-runs/detail
```

Example Responses

Status code: 200

OK

```
{
  "id": "25adfa6784124cfc9b9274ceaecf9957",
  "pipeline_id": "98b6ea1536374df883bcc3b129bca4e9",
  "manifest_version": "3.0",
  "name": "Sub-pipeline qq",
  "description": null,
  "is_publish": false,
  "executor_id": "847a5317086c41798469d0868535943a",
  "executor_name": "Beta environment account",
  "status": "COMPLETED",
  "trigger_type": "Manual",
  "run_number": 1,
  "start_time": 1674207197000,
  "end_time": 1674207197000,
  "stages": [ {
    "id": "aac8063fbf084eec9722c77ece6dd283",
    "category": null,
    "name": "Phase_1",
    "identifier": "0",
    "run_always": false,
    "parallel": null,
    "is_select": true,
    "sequence": 0,
    "depends_on": [ ],
    "condition": null,
    "status": "COMPLETED",
    "start_time": 1674207197000,
    "end_time": 1674207197000,
    "pre": [ {
      "name": null,
      "task": "official_devcloud_autoTrigger",
      "business_type": null,
      "inputs": null,
      "sequence": 0,
      "official_task_version": null,
      "identifier": null,
      "multi_step_editable": 0,
      "id": "5a03bdb6ad2848ac972ba21744627a8c",
      "endpoint_ids": null,
      "last_dispatch_id": "6b3fa4c664844f33abc02053ddd76f62",
      "status": "COMPLETED",
      "message": null,
      "start_time": 1674207197000,
      "end_time": 1674207197000
    } ],
    "post": [ ],
    "jobs": [ {
      "id": "1cde6a3815164cd18d0fa4038f876e46",
      "category": null,
      "sequence": 0,
      "async": null,
      "name": "Creating a Job",
      "identifier": "1674207161661b4a41d77-a478-4538-870b-ffb589c1af06",
      "depends_on": [ ],
      "condition": null,
      "resource": null,
      "is_select": true,
      "timeout": ""
    } ]
  } ]
}
```



```
"last_dispatch_id" : null,
"status" : "COMPLETED",
"message" : "not found steps",
"start_time" : 1674207197000,
"end_time" : 1674207197000,
"steps" : [ ]
} ]
} ],
"domain_id" : "ce8df55870164338a72d7e828a966a2a",
"project_id" : "6428c2e2b4b64affa14ec80896695c49",
"region" : "{region}",
"component_id" : "",
"language" : "zh-cn",
"sources" : [ {
  "type" : "code",
  "params" : {
    "git_type" : "codehub",
    "git_url" : "https://example.com/clsyz00001/aaaaa.git",
    "ssh_git_url" : "git@example.com:clsyz00001/aaaaa.git",
    "web_url" : "",
    "repo_name" : "aaaaa",
    "default_branch" : "master",
    "endpoint_id" : "",
    "codehub_id" : "2111677704",
    "alias" : "",
    "build_params" : {
      "action" : null,
      "build_type" : "branch",
      "commit_id" : "990ea057751d299f5575aac25bf97e88a60b461e",
      "event_type" : "Manual",
      "merge_id" : null,
      "message" : "Creating a Dockerfile",
      "source_branch" : null,
      "tag" : null,
      "target_branch" : "master",
      "codehub_id" : "2111677704"
    }
  }
} ],
"artifacts" : null,
"subject_id" : "25adfa6784124cfc9b9274ceaecf9957"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class ShowPipelineRunDetailSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
```

this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment

```
String ak = System.getenv("CLOUD_SDK_AK");
String sk = System.getenv("CLOUD_SDK_SK");

ICredential auth = new BasicCredentials()
    .withAk(ak)
    .withSk(sk);

CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
    .withCredential(auth)
    .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
    .build();
ShowPipelineRunDetailRequest request = new ShowPipelineRunDetailRequest();
request.withProjectId("{project_id}");
request.withPipelineId("{pipeline_id}");
try {
    ShowPipelineRunDetailResponse response = client.showPipelineRunDetail(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

coding: utf-8

```
import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowPipelineRunDetailRequest()
        request.project_id = "{project_id}"
        request.pipeline_id = "{pipeline_id}"
        response = client.show_pipeline_run_detail(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowPipelineRunDetailRequest{}
    request.ProjectId = "{project_id}"
    request.PipelineId = "{pipeline_id}"
    response, err := client.ShowPipelineRunDetail(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.2.4 Obtaining Pipeline List/Pipeline Execution Status in a Project

Function

This API is used to obtain pipeline list and pipeline execution status in a project.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v5/{project_id}/api/pipelines/list

Table 4-64 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-65 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Table 4-66 Request body parameters

Parameter	Mandatory	Type	Description
project_id	No	String	Definition: CodeArts project ID. Constraints: N/A Value range: Each ID consists of 32 characters, including digits and letters. Default value: N/A
project_ids	No	Array of strings	Definition: CodeArts project IDs. Constraints: N/A Value range: Each ID consists of 32 characters, including digits and letters. Default value: N/A

Parameter	Mandatory	Type	Description
component_id	No	String	Definition: Microservice ID. Obtain the ID by calling the API for querying microservices . data.id indicates the microservice ID. Constraints: N/A Value range: 32 characters. Default value: N/A
name	No	String	Parameter description: Pipeline name. Fuzzy search is supported. Constraints: None. Value range: None. Default value: None.

Parameter	Mandatory	Type	Description
status	No	Array of strings	Definition: Pipeline status list. Constraints: N/A Value range: • COMPLETED: The instance is completed. • RUNNING: The instance is running. • FAILED: The instance failed. • CANCELED: The instance is canceled. • PAUSED: The instance is paused. • SUSPEND: The instance is suspended. • IGNORED: The pipeline is ignored. Default value: N/A
is_publish	No	Boolean	Definition: Whether the pipeline is a change-triggered pipeline. Constraints: N/A Value range: • true: The pipeline is a change-triggered pipeline. • false: The pipeline is not a change-triggered pipeline. Default value: N/A

Parameter	Mandatory	Type	Description
creator_id	No	String	Definition: Creator ID, that is, the user ID. Constraints: N/A Value range: Each ID contains 32 characters. Default value: N/A
creator_ids	No	Array of strings	Parameter description: Creator ID list. Constraints: None. Value range: Each ID contains 32 characters. Default value: None.
executor_ids	No	Array of strings	Parameter description: Executor ID list. Constraints: None. Value range: Each ID contains 32 characters. Default value: None.
start_time	No	String	Definition: Pipeline start time. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
end_time	No	String	Definition: Pipeline end time. Constraints: N/A Value range: N/A Default value: N/A
offset	No	Long	Parameter description: Initial offset. Constraints: None. Value range: None. Default value: None.
limit	No	Long	Parameter description: Number of records to be queried. Constraints: None. Value range: None. Default value: None.
sort_key	No	String	Definition: Sorting field. Constraints: N/A Value range: • name: pipeline name. • create_time: creation time. • update_time: update time. Default value: N/A

Parameter	Mandatory	Type	Description
sort_dir	No	String	Definition: Sorting rule. Constraints: N/A Value range: • asc: by sorting field in ascending order. • desc: by sorting field in descending order. Default value: N/A
group_path_id	No	String	Parameter description: Pipeline group ID. Constraints: None. Value range: None. Default value: None.
by_group	No	Boolean	Definition: Whether to query by group. Constraints: N/A Value range: • true: The query is performed by group. • false: The query is not performed by group. Default value: N/A

Parameter	Mandatory	Type	Description
is_banned	No	Boolean	Definition: Whether to include disabled pipelines. Constraints: N/A Value range: • true: Disabled pipelines are included. • false: Disabled pipelines are not included. Default value: N/A
query_new	No	Boolean	Definition: Whether to query only pipelines of the new version. Constraints: N/A Value range: • true: Only pipelines of the new version are queried. • false: Pipelines of the new and the old version are queried. Default value: true.

Response Parameters

Status code: 200

Table 4-67 Response body parameters

Parameter	Type	Description
offset	Integer	Parameter description: Initial offset. Value range: None.

Parameter	Type	Description
limit	Integer	Parameter description: Number of queried records. Value range: None.
total	Integer	Parameter description: Total number of records. Value range: None.
pipelines	Array of pipelines objects	Parameter description: Pipeline. Value range: None.

Table 4-68 pipelines

Parameter	Type	Description
pipeline_id	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Value range: The value consists of 32 characters, including only digits and letters.
name	String	Parameter description: Pipeline name. Value range: The value can contain only letters, digits, hyphens (-), and underscores (_). The length is 1128 characters.
project_id	String	Parameter description: Project ID. Value range: 32 characters, including only digits and letters.

Parameter	Type	Description
project_name	String	Parameter description: Project name. Value range: None.
component_id	String	Parameter description: Component ID. Value range: None.
is_publish	Boolean	Definition: Whether the pipeline is a change-triggered pipeline. Value range: • true: The pipeline is a change-triggered pipeline. • false: The pipeline is not a change-triggered pipeline.
is_collect	Boolean	Definition: Whether to add the pipeline to favorites. Value range: • true: The pipeline has been added to favorites. • false: The pipeline is not added to favorites.
manifest_version	String	Parameter description: Pipeline version. Value range: The default value is 3.0 .
create_time	Long	Parameter description: Creation time. Value range: None.
latest_run	latest_run object	Parameter description: Latest running information. Value range: None.

Parameter	Type	Description
convert_sign	Integer	Parameter description: Sign of converting an old version to a new version. Value range: None.
security_level	Integer	Definition: Pipeline security level. Value range: The value is a positive integer. null: No security level is set. 1: lowest security level.

Table 4-69 latest_run

Parameter	Type	Description
pipeline_id	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Value range: N/A
pipeline_run_id	String	Definition: Pipeline run ID. The return value of the API for starting a pipeline is the pipeline run ID. Value range: N/A
executor_id	String	Parameter description: Executor ID. Value range: None.
executor_name	String	Parameter description: Executor name. Value range: None.

Parameter	Type	Description
stage_status_list	Array of stage_status_list objects	Definition: Stage information list. Value range: N/A
status	String	Definition: Pipeline run status. Value range: • COMPLETED: The instance is completed. • RUNNING: The instance is running. • FAILED: The instance failed. • CANCELED: The instance is canceled. • PAUSED: The instance is paused. • SUSPEND: The instance is suspended. • IGNORED: The instance is ignored.
run_number	Integer	Parameter description: Pipeline running sequence number. Value range: No less than 1.
trigger_type	String	Definition: Trigger type. Value range: • Manual: triggered manually. • Scheduler: triggered by a scheduled task. • MR: triggered by an MR. • Push: triggered by a push event. • CreateTag: triggered by a tag. • Issue: triggered by an issue. • Note: triggered by a comment.
build_params	build_params object	Parameter description: Build parameters. Value range: None.

Parameter	Type	Description
artifact_params	artifact_params object	Parameter description: Artifact parameters. Value range: None.
start_time	Long	Definition: Pipeline start time. Value range: N/A
end_time	Long	Definition: Pipeline end time. Value range: N/A
modify_url	String	Parameter description: Address of the editing page. Value range: None.
detail_url	String	Parameter description: Address of the details page. Value range: None.

Table 4-70 stage_status_list

Parameter	Type	Description
name	String	Parameter description: Stage name. Value range: Enter only letters, digits, hyphens (-), underscores (_), commas (,), semicolons (;), colons (:), periods (.), slashes (/), parentheses (), and spaces. The name cannot start or end with a space, and the length is 1128 characters.

Parameter	Type	Description
sequence	Integer	Parameter description: Stage sequence number. The value 0 indicates the first pipeline stage. Value range: No less than 0 .
status	String	Definition: Pipeline stage status. Value range: • INIT: The stage is being initialized. • QUEUED: The stage is queuing. • RUNNING: The stage is running. • CANCELED: The stage is canceled. • COMPLETED: The stage is completed. • FAILED: The stage is failed. • SKIPPED: The stage is skipped. • IGNORED: The stage is ignored. • PAUSED: The stage is paused. • SUSPEND: The stage is suspended. • ASYNC_RUNNING: The stage is running asynchronously. • ASYNC_FAILED: The stage failed during asynchronous execution. • UNSELECTED: The stage is unselected. • REDISPATCH: The stage is rescheduled.
start_time	String	Parameter description: Stage start time. Value range: None.
end_time	String	Parameter description: Stage end time. Value range: None.
id	String	Parameter description: Stage ID. Value range: None.

Table 4-71 build_params

Parameter	Type	Description
action	String	Definition: Merge request type. Value range: • open: The merge request is opened. • reopen: The merge request is reopened. • update: The merge request is updated. • merge: The merge request is merged.
build_type	String	Definition: Triggered by a branch or a tag. Value range: • branch: triggered by a branch. • tag: triggered by a tag.
commit_id	String	Definition: Code repository commit ID. Value range: The value contains 40 characters.
event_type	String	Definition: Type of a running event. Value range: • Manual: triggered manually. • Scheduler: triggered by a scheduled task. • MR: triggered by an MR. • Push: triggered by a push event. • CreateTag: triggered by a tag. • Issue: triggered by an issue. • Note: triggered by a comment.
merge_id	String	Parameter description: Merge request ID. Value range: None.

Parameter	Type	Description
message	String	Parameter description: Code commit message. Value range: None.
source_branch	String	Parameter description: Source branch. Value range: None.
tag	String	Parameter description: Tag. Value range: None.
target_branch	String	Parameter description: Target branch. Value range: None.
codehub_id	String	Parameter description: Repo code repository ID. Value range: None.
git_url	String	Parameter description: HTTPS address of the code repository. Value range: None.
source_codehub_id	String	Parameter description: ID of the source Repo code repository. Value range: None.
source_codehub_url	String	Parameter description: Address of the source Repo code repository. Value range: None.

Parameter	Type	Description
source_codehub_http_url	String	Parameter description: HTTP address of the source Repo code repository. Value range: None.

Table 4-72 artifact_params

Parameter	Type	Description
version	String	Parameter description: Package version. Value range: None.
branch_filter	String	Parameter description: Branch filter. Value range: None.
package_name	String	Parameter description: Package name. Value range: None.
organization	String	Parameter description: Docker organization. Value range: None.

Example Requests

This API is used to obtain the pipeline list.

Set the start offset to 0 and the number to 10.

```
POST https://{endpoint}/v5/54f90b75fc1447b1b65e8d3a9f77923d/api/pipelines/list
```

```
{
  "offset" : 0,
  "limit" : 10,
  "name" : ""
}
```

Example Responses

Status code: 200

OK

```
{
  "offset" : 0,
  "limit" : 10,
  "total" : 1,
  "pipelines" : [ {
    "pipeline_id" : "cd65d6f2dc17493e97eb5175f872761a",
    "name" : "New Pipeline - 20230222181032",
    "project_id" : "6428c2e2b4b64affa14ec80896695c49",
    "component_id" : "7bb171e9e9fc415dbd1666ceb68668da",
    "is_publish" : true,
    "is_collect" : false,
    "manifest_version" : "3.0",
    "create_time" : 1677060662000,
    "latest_run" : {
      "pipeline_id" : "cd65d6f2dc17493e97eb5175f872761a",
      "pipeline_run_id" : "88a195482b8a48a1808e87ec21565c2f",
      "executor_id" : "847a5317086c41798469d0868535943a",
      "executor_name" : "Beta environment account",
      "stage_status_list" : [ {
        "name" : "Merge Integration Branch",
        "sequence" : 0,
        "status" : "FAILED",
        "start_time" : "2023-02-22 18:12:25",
        "end_time" : "2023-02-22 18:12:32"
      }, {
        "name" : "Phase_1",
        "sequence" : 1,
        "status" : "INIT",
        "start_time" : null,
        "end_time" : null
      }, {
        "name" : "Combining Trunks",
        "sequence" : 1,
        "status" : "INIT",
        "start_time" : null,
        "end_time" : null
      } ],
      "status" : "FAILED",
      "run_number" : 1,
      "trigger_type" : "Manual",
      "build_params" : null,
      "artifact_params" : null,
      "start_time" : 1677060745000,
      "end_time" : 1677060752000
    }
  ]
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

This API is used to obtain the pipeline list.

Set the start offset to 0 and the number to 10.

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
```

```
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class ListPipelinesSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        ListPipelinesRequest request = new ListPipelinesRequest();
        request.withProjectId("{project_id}");
        ListPipelineQuery body = new ListPipelineQuery();
        body.withLimit(10L);
        body.withOffset(0L);
        body.withName("");
        request.withBody(body);
        try {
            ListPipelinesResponse response = client.listPipelines(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

This API is used to obtain the pipeline list.

Set the start offset to 0 and the number to 10.

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.getenv("CLOUD_SDK_AK")
```

```
sk = os.environ["CLOUD_SDK_SK"]

credentials = BasicCredentials(ak, sk)

client = CodeArtsPipelineClient.new_builder() \
    .with_credentials(credentials) \
    .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
    .build()

try:
    request = ListPipelinesRequest()
    request.project_id = "{project_id}"
    request.body = ListPipelineQuery(
        limit=10,
        offset=0,
        name=""
    )
    response = client.list_pipelines(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

This API is used to obtain the pipeline list.

Set the start offset to 0 and the number to 10.

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListPipelinesRequest{}
    request.ProjectId = "{project_id}"
    limitListPipelineQuery := int64(10)
    offsetListPipelineQuery := int64(0)
    nameListPipelineQuery := ""
    request.Body = &model.ListPipelineQuery{
        Limit: &limitListPipelineQuery,
        Offset: &offsetListPipelineQuery,
```

```
Name: &nameListPipelineQuery,  
}  
response, err := client.ListPipelines(request)  
if err == nil {  
    fmt.Printf("%+v\n", response)  
} else {  
    fmt.Println(err)  
}  
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.2.5 Deleting a Pipeline

Function

This API is used to delete a pipeline.

Calling Method

For details, see [Calling APIs](#).

URI

DELETE /v5/{project_id}/api/pipelines/{pipeline_id}

Table 4-73 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-74 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-75 Response body parameters

Parameter	Type	Description
pipeline_id	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Value range: The value consists of 32 characters, including only digits and letters.

Example Requests

```
DELETE https://{endpoint}/v5/54f90b75fc1447b1b65e8d3a9f77923d/api/pipelines/  
e5460d1d403146a1935c2d4b68ef506c
```

Example Responses

Status code: 200

OK

```
{
  "pipeline_id" : "e5460d1d403146a1935c2d4b68ef506c"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class DeletePipelineSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        DeletePipelineRequest request = new DeletePipelineRequest();
        request.withProjectId("{project_id}");
        request.withPipelineId("{pipeline_id}");
        try {
            DeletePipelineResponse response = client.deletePipeline(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
```

```
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = DeletePipelineRequest()
        request.project_id = "{project_id}"
        request.pipeline_id = "{pipeline_id}"
        response = client.delete_pipeline(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.DeletePipelineRequest{}
    request.ProjectId = "{project_id}"
    request.PipelineId = "{pipeline_id}"
    response, err := client.DeletePipeline(request)
    if err == nil {
```

```
    fmt.Printf("%+v\n", response)
  } else {
    fmt.Println(err)
  }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.2.6 Querying Pipeline Details

Function

Querying Pipeline Details

Calling Method

For details, see [Calling APIs](#).

URI

GET /v5/{project_id}/api/pipelines/{pipeline_id}

Table 4-76 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-77 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-78 Response body parameters

Parameter	Type	Description
id	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Value range: The value consists of 32 characters, including only digits and letters.
name	String	Parameter description: Pipeline name. Value range: The value can contain only letters, digits, hyphens (-), and underscores (_). The length is 1128 characters.

Parameter	Type	Description
description	String	Parameter description: Description of the pipeline. Value range: Max. 1024 characters.
manifest_version	String	Parameter description: Pipeline version. Default: 3.0 . Value range: N/A
region	String	Definition: Region that the current environment belongs to. Value range: N/A
domain_id	String	Parameter description: Tenant ID. Value range: 32 characters, including only digits and letters.
project_id	String	Parameter description: Project ID. Value range: 32 characters, including only digits and letters.
component_id	String	Definition: ID of the microservice to which the pipeline belongs. Obtain the ID by calling the API for querying microservices . data.id indicates the microservice ID. Value range: N/A
is_publish	Boolean	Definition: Whether the pipeline is a change-triggered pipeline. Value range: • true: The pipeline is a change-triggered pipeline. • false: The pipeline is not a change-triggered pipeline.

Parameter	Type	Description
creator_id	String	Definition: Pipeline creator ID. Value range: The value consists of 32 characters, including only digits and letters.
creator_name	String	Definition: Pipeline creator name. Value range: N/A
updater_id	String	Definition: ID of the last person who updated the pipeline. Value range: The value consists of 32 characters, including only digits and letters.
create_time	Long	Definition: Pipeline creation time. Value range: N/A
update_time	Long	Definition: Pipeline update time. Value range: N/A
is_collect	Boolean	Definition: Whether the pipeline is added to favorites by the current user. Value range: • true: The pipeline has been added to favorites. • false: The pipeline is not added to favorites.
sources	Array of PipelineSource objects	Parameter description: Pipeline source list. Value range: N/A

Parameter	Type	Description
variables	Array of PipelineVariable objects	Parameter description: Custom pipeline parameters. Value range: None.
schedules	Array of PipelineSchedule objects	Parameter description: Settings of pipeline scheduled tasks. Value range: None.
triggers	Array of PipelineTrigger objects	Parameter description: Settings of pipeline event triggers. Value range: None.
group_id	String	Parameter description: ID of the group to which the pipeline belongs. Value range: None.
definition	String	Parameter description: Pipeline definition JSON. Value range: None.

Table 4-79 PipelineSource

Parameter	Type	Description
type	String	Parameter description: Pipeline source type. Value range: N/A
params	PipelineSourceParam object	Parameter description: Pipeline source parameters. Value range: N/A

Table 4-80 PipelineSourceParam

Parameter	Type	Description
alias	String	Parameter description: Code/Artifact source parameter – Alias of the code repository/artifact source. Value range: The value can contain a maximum of 128 characters, including letters, digits, and underscores (_).
git_type	String	Definition: Type of the Git repository. Value range: • CodeArts Repo. • Gitee. • GitHub. • GitCode. • GitLab.
codehub_id	String	Parameter description: Repo ID. Value range: N/A
endpoint_id	String	Parameter description: Endpoint ID. Value range: N/A
default_branch	String	Parameter description: Default branch. Value range: N/A
git_url	String	Parameter description: Git URL. Value range: N/A
ssh_git_url	String	Parameter description: ssh_git URL. Value range: N/A

Parameter	Type	Description
web_url	String	Parameter description: Web page URL. Value range: N/A
repo_name	String	Parameter description: Pipeline source name. Value range: N/A
artifact_type	String	Parameter description: Artifact source type. Value range: generic and docker are available.
artifact_type_name	String	Parameter description: Artifact source type name. Value range: N/A
branch_filter	String	Parameter description: Branch filter. Value range: N/A
directory	String	Definition: Directory where the artifact is located. Value range: N/A
directory_id	String	Parameter description: Directory ID. Value range: N/A
organization	String	Parameter description: Docker organization. Value range: N/A
package_name	String	Definition: Software package name. Value range: N/A

Parameter	Type	Description
version	String	Definition: Artifact version. Value range: N/A
version_strategy	String	Parameter description: Policy to obtain the artifact source version. Value range: latest and specificVersion are available.
source_system	String	Parameter description: Artifact source name. Value range: N/A

Table 4-81 PipelineVariable

Parameter	Type	Description
name	String	Definition: Custom parameter name. Value range: Enter a maximum of 128 characters. Only letters, digits, and underscores (_) are supported.
sequence	Integer	Parameter description: Sequence number. Value range: 1-2147483647
type	String	Parameter description: Custom parameter type. Value range: N/A
value	String	Definition: Default value of the custom parameter. Value range: N/A

Parameter	Type	Description
is_secret	Boolean	Definition: Private parameter or not. Value range: • true: The parameter is private. • false: The parameter is not private.
description	String	Parameter description: Custom parameter description. Value range: N/A
is_runtime	Boolean	Definition: Whether a parameter can be set at runtime. Value range: • true: The parameter can be set at runtime. • false: The parameter cannot be set at runtime.
limits	Array of strings	Parameter description: List of limited enumerated values. Value range: N/A
is_reset	Boolean	Definition: Whether an auto-increment parameter is reset. Value range: • true: The parameter is reset. • false: The parameter is not reset.
latest_value	String	Parameter description: The latest value of an auto-increment parameter. Value range: N/A

Table 4-82 PipelineSchedule

Parameter	Type	Description
uuid	String	Parameter description: ID of a scheduled task. Constraints: None. Value range: None. Default value: None.
type	String	Parameter description: Job type. Constraints: None. Value range: Only fixed is supported. Default value: None.
name	String	Parameter description: Job name. Constraints: None. Value range: None. Default value: None.
enable	String	Parameter description: Whether to enable. Constraints: None. Value range: None. Default value: None.

Parameter	Type	Description
days_of_week	Array of integers	Parameter description: Specific execution day in a week. Sunday to Saturday: 1 to 7 . Constraints: N/A. Value Range: N/A. Default value: N/A.
time_zone	String	Definition: Time zone. Constraints: N/A Value range: • "China Standard Time". • "GMT Standard Time". • "South Africa Standard Time". • "Russian Standard Time". • "SE Asia Standard Time". • "Singapore Standard Time". • "Pacific SA Standard Time". • "E. South America Standard Time". • "Central Standard Time (Mexico)". • "Egypt Standard Time". • "Saudi Arabia Standard Time". Default value: N/A

Table 4-83 PipelineTrigger

Parameter	Type	Description
pipeline_id	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
git_url	String	Definition: Git URL. Constraints: N/A Value range: N/A Default value: N/A
git_type	String	Definition: Type of the Git repository. Constraints: N/A Value range: • CodeArts Repo. • Gitee. • GitHub. • GitCode. • GitLab. Default value: N/A

Parameter	Type	Description
is_auto_commit	Boolean	Definition: Whether to automatically commit code. This feature is only available for Gitee repositories. After a webhook triggers a pipeline, a comment is automatically added. Constraints: N/A Value range: • true: The code is automatically committed. • false: The code is not automatically committed. Default value: N/A
events	Array of CodeEvent objects	Parameter description: Trigger event list. Constraints: None. Value range: None. Default value: None.
hook_id	String	Parameter description: Callback ID generated by the system. Constraints: None. Value range: None. Default value: None.
repo_id	String	Parameter description: Repo repository ID. Constraints: None. Value range: None. Default value: None.

Parameter	Type	Description
endpoint_id	String	Definition: Code source endpoint ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
callback_url	String	Parameter description: Callback URL, which is generated when a webhook is registered. Constraints: None. Value range: None. Default value: None.
security_token	String	Parameter description: User token, which is generated when a webhook is registered. Constraints: None. Value range: None. Default value: None.

Table 4-84 CodeEvent

Parameter	Type	Description
type	String	Definition: Event type. Constraints: N/A Value range: • merge_request: triggered by an MR. • push: triggered by code push. • tag_push: triggered by a tag. • issue: triggered by a Gitee repository issue. • note: triggered by a Gitee repository comment. Default value: N/A
enable	Boolean	Definition: Whether the code repository is available. Constraints: N/A Value range: • true: The code repository is available. • false: The code repository is unavailable. Default value: N/A

Example Requests

```
GET https://{endpoint}/v5/6428c2e2b4b64affa14ec80896695c49/api/pipelines/  
633839ac12a2465ba86dfc5cd212ee1a
```

Example Responses

Status code: 200

OK

```
{  
  "id" : "9777b6f14dca47ab8e411512b8301698",  
  "name" : "New Pipeline - 20230222110358",  
  "description" : "",  
  "manifest_version" : "3.0",
```

```
"region" : "{region}",
"domain_id" : "ce8df55870164338a72d7e828a966a2a",
"project_id" : "f83ef803e04e4fe8834ddaf18ffd9d8f",
"component_id" : "",
"is_publish" : false,
"creator_id" : "847a5317086c41798469d0868535943a",
"creator_name" : "Beta environment account",
"updater_id" : "847a5317086c41798469d0868535943a",
"create_time" : 1676116509000,
"update_time" : 1690785914000,
"is_collect" : true,
"sources" : [ ],
"variables" : [ ],
"schedules" : [ {
  "uuid" : "38e10252a4ea48c594f744bb4fc1411c",
  "type" : "fixed",
  "name" : "Scheduled task_1",
  "enable" : true,
  "days_of_week" : [ 2, 3, 4, 5, 6 ],
  "time_zone" : "China Standard Time"
} ],
"triggers" : [ ],
"group_id" : null,
"definition" : "{ \"stages\": [{ \"name\": \"Delayed execution of phase_1\", \"sequence\": \"0\", \"jobs\": [{ \"id\": \"\", \"stage_id\": \"1677035050256\", \"identifier\": \"167703505025720bcc960-2929-457f-91e5-9099556cc478\", \"name\": \"\", \"depends_on\": [ ], \"timeout\": \"\", \"timeout_unit\": \"\", \"steps\": [{ \"name\": \"Delayed execution of \", \"task\": \"official_devcloud_delay\", \"sequence\": \"0\", \"inputs\": [{ \"key\": \"timer_type\", \"value\": \"delay\" }, { \"key\": \"delay_time\", \"value\": \"10\", \"key\": \"scheduled_time\", \"value\": \"\", \"key\": \"time_zone\", \"value\": \"China Standard Time\" } ], \"business_type\": \"Normal\", \"runtime_attribution\": \"agentless\", \"identifier\": \"1677035056887f508df54-eff9-4f47-b67d-0629917599e9\", \"multi_step_editable\": \"0\", \"official_task_version\": \"0.0.3\" } ], \"exec_type\": \"AGENTLESS_JOB\", \"sequence\": \"0\", \"pipeline_id\": \"62bc8c36ab1a4ef9831df98e88c33c69\", \"identifier\": \"0\", \"pre\": [{ \"task\": \"official_devcloud_autoTrigger\", \"sequence\": \"0\", \"post\": null, \"depends_on\": [ ], \"run_always\": false, \"pipeline_id\": \"62bc8c36ab1a4ef9831df98e88c33c69\" } ] } ] } }
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class ShowPipelineDetailSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
```

```
.withSk(sk);

CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
    .withCredential(auth)
    .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
    .build();
ShowPipelineDetailRequest request = new ShowPipelineDetailRequest();
request.withProjectId("{project_id}");
request.withPipelineId("{pipeline_id}");
try {
    ShowPipelineDetailResponse response = client.showPipelineDetail(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowPipelineDetailRequest()
        request.project_id = "{project_id}"
        request.pipeline_id = "{pipeline_id}"
        response = client.show_pipeline_detail(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
```

```
"fmt"
"github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
"github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowPipelineDetailRequest{}
    request.ProjectId = "{project_id}"
    request.PipelineId = "{pipeline_id}"
    response, err := client.ShowPipelineDetail(request)
    if err == nil {
        fmt.Printf("%v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.2.7 Editing a Pipeline

Function

This API is used to edit a pipeline.

Calling Method

For details, see [Calling APIs](#).

URI

PUT /v5/{project_id}/api/pipelines/{pipeline_id}

Table 4-85 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Table 4-86 Query Parameters

Parameter	Mandatory	Type	Description
component_id	No	String	Definition: Pipeline microservice ID. Obtain the ID by calling the API for querying microservices . data.id indicates the microservice ID. Constraints: N/A Value range: The value consists of 32 characters, including only digits and letters. Default value: N/A

Request Parameters

Table 4-87 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Table 4-88 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Parameter description: Pipeline name. Constraints: None. Value range: The value can contain only letters, digits, hyphens (-), and underscores (_). The length is 1128 characters. Default value: None.
description	No	String	Parameter description: Pipeline description. Constraints: N/A Value range: Max. 1024 characters. Default value: N/A
is_publish	Yes	Boolean	Definition: Whether the pipeline is a change-triggered pipeline. Constraints: N/A Value range: • true: The pipeline is a change-triggered pipeline. • false: The pipeline is not a change-triggered pipeline. Default value: N/A

Parameter	Mandatory	Type	Description
sources	No	Array of CodeSource objects	Parameter description: Pipeline source information. Constraints: None. Value range: None. Default value: None.
variables	No	Array of CustomVariable objects	Parameter description: List of custom pipeline global variables. Constraints: None. Value range: None. Default value: None.
schedules	No	Array of PipelineSchedule objects	Parameter description: List of pipeline scheduled execution configurations. Constraints: None. Value range: None. Default value: None.
triggers	No	Array of PipelineTrigger objects	Parameter description: Configurations of pipeline event triggers. Constraints: None. Value range: None. Default value: None.

Parameter	Mandatory	Type	Description
manifest_version	No	String	Definition: Version of the pipeline structure definition. Constraints: N/A Value range: N/A Default value: 3.0.
definition	Yes	String	Definition: Pipeline structure definition JSON. The structure of this field is complex. You are advised to edit the pipeline on the web UI and obtain the field from the API for querying pipeline details . Constraints: N/A Value range: N/A Default value: N/A
project_name	No	String	Parameter description: Project name. Constraints: None. Value range: None. Default value: None.

Parameter	Mandatory	Type	Description
group_id	No	String	Parameter description: Pipeline group ID. Constraints: None. Value range: 32 characters, including only digits and letters. Default value: None.
id	No	String	Parameter description: Pipeline group ID, which is used for the cloning scenario. Constraints: None. Value range: 32 characters, including only digits and letters. Default value: None.
concurrency_control	No	PipelineConcurrencyMgmt object	Definition: Pipeline concurrency control information. Constraints: N/A Value range: N/A Default value: N/A

Table 4-89 CodeSource

Parameter	Mandatory	Type	Description
type	No	String	Definition: Pipeline source type. Currently, code and artifact are supported. Constraints: N/A Value range: N/A Default value: N/A
params	No	params object	Parameter description: Pipeline source parameters, including details about the pipeline source. Constraints: N/A Value range: N/A Default value: N/A

Table 4-90 params

Parameter	Mandatory	Type	Description
git_type	No	String	Definition: Code repository type. Constraints: N/A Value range: • CodeArts Repo. • Gitee. • GitHub. • GitCode. • GitLab. Default value: N/A

Parameter	Mandatory	Type	Description
codehub_id	No	String	Parameter description: CodeArts Repo code repository ID. Constraints: None. Value range: None. Default value: None.
endpoint_id	No	String	Parameter description: Code source endpoint ID. Constraints: None. Value range: None. Default value: None.
default_branch	No	String	Parameter description: Default branch. Constraints: None. Value range: None. Default value: None.
git_url	No	String	Parameter description: HTTPS address of the Git repository, for example, https://example.com/CloudPipelinezycs00001/2000.git. Constraints: None. Value range: None. Default value: None.

Parameter	Mandatory	Type	Description
ssh_git_url	No	String	Parameter description: ssh_git address, for example, https://example.com/CloudPipelinezycs00001/2000.git. Constraints: None. Value range: None. Default value: None.
web_url	No	String	Parameter description: Web page URL. Constraints: None. Value range: None. Default value: None.
repo_name	No	String	Parameter description: Pipeline source name. Constraints: None. Value range: None. Default value: None.
alias	No	String	Definition: Code repository alias. Constraints: N/A Value range: Enter a maximum of 128 characters. Only letters, digits, and underscores (_) are supported. Default value: N/A

Table 4-91 CustomVariable

Parameter	Mandatory	Type	Description
pipeline_id	No	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
name	No	String	Definition: Custom parameter name. Constraints: N/A Value range: Enter a maximum of 128 characters. Only letters, digits, and underscores (_) are supported. Default value: N/A
sequence	No	Integer	Parameter description: Parameter sequence number, which starts from 1. Constraints: None. Value range: None. Default value: None.

Parameter	Mandatory	Type	Description
type	No	String	Definition: Custom parameter type. Constraints: N/A Value range: • autoIncrement: auto-increment parameter. • enum: enumerated parameter. • string: string parameter. Default value: N/A
value	No	String	Parameter description: Default value of a custom parameter. Constraints: None. Value range: Up to 8192 characters. Default value: None.
is_secret	No	Boolean	Definition: Private parameter or not. Constraints: N/A Value range: • true: The parameter is private. • false: The parameter is not private. Default value: false.

Parameter	Mandatory	Type	Description
description	No	String	Parameter description: Parameter description. Constraints: None. Value range: Up to 1024 characters. Default value: None.
is_runtime	No	Boolean	Definition: Whether a parameter can be set at runtime. Constraints: N/A Value range: • true: The parameter can be set at runtime. • false: The parameter cannot be set at runtime. Default value: false.
limits	No	Array of objects	Parameter description: List of enumerated values. Constraints: None. Value range: Up to 1,024 characters. Default value: None.

Parameter	Mandatory	Type	Description
is_reset	No	Boolean	Definition: Whether to reset. If the auto-increment parameter is edited, the edited value is used. Otherwise, the last digit increases. Constraints: N/A Value range: • true: Use the edited parameter value. • false: Use the auto-increment parameter. Default value: false.
latest_value	No	String	Definition: Value of the parameter in the last run. Constraints: N/A Value range: Max. 8,192 characters. Default value: N/A
runtime_value	No	String	Definition: Input value of a parameter when the pipeline is executed. Constraints: N/A Value range: N/A Default value: N/A

Table 4-92 PipelineSchedule

Parameter	Mandatory	Type	Description
uuid	No	String	Parameter description: ID of a scheduled task. Constraints: None. Value range: None. Default value: None.
type	No	String	Parameter description: Job type. Constraints: None. Value range: Only fixed is supported. Default value: None.
name	No	String	Parameter description: Job name. Constraints: None. Value range: None. Default value: None.
enable	No	String	Parameter description: Whether to enable. Constraints: None. Value range: None. Default value: None.

Parameter	Mandatory	Type	Description
days_of_week	No	Array of integers	Parameter description: Specific execution day in a week. Sunday to Saturday: 1 to 7 . Constraints: N/A. Value Range: N/A. Default value: N/A.
time_zone	No	String	Definition: Time zone. Constraints: N/A Value range: • "China Standard Time". • "GMT Standard Time". • "South Africa Standard Time". • "Russian Standard Time". • "SE Asia Standard Time". • "Singapore Standard Time". • "Pacific SA Standard Time". • "E. South America Standard Time". • "Central Standard Time (Mexico)". • "Egypt Standard Time". • "Saudi Arabia Standard Time". Default value: N/A

Table 4-93 PipelineTrigger

Parameter	Mandatory	Type	Description
pipeline_id	No	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . <code>pipelines.pipelineId</code> indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
git_url	No	String	Definition: Git URL. Constraints: N/A Value range: N/A Default value: N/A
git_type	No	String	Definition: Type of the Git repository. Constraints: N/A Value range: • CodeArts Repo. • Gitee. • GitHub. • GitCode. • GitLab. Default value: N/A

Parameter	Mandatory	Type	Description
is_auto_commit	No	Boolean	Definition: Whether to automatically commit code. This feature is only available for Gitee repositories. After a webhook triggers a pipeline, a comment is automatically added. Constraints: N/A Value range: • true: The code is automatically committed. • false: The code is not automatically committed. Default value: N/A
events	No	Array of CodeEvent objects	Parameter description: Trigger event list. Constraints: None. Value range: None. Default value: None.
hook_id	No	String	Parameter description: Callback ID generated by the system. Constraints: None. Value range: None. Default value: None.

Parameter	Mandatory	Type	Description
repo_id	No	String	Parameter description: Repo repository ID. Constraints: None. Value range: None. Default value: None.
endpoint_id	No	String	Definition: Code source endpoint ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
callback_url	No	String	Parameter description: Callback URL, which is generated when a webhook is registered. Constraints: None. Value range: None. Default value: None.
security_token	No	String	Parameter description: User token, which is generated when a webhook is registered. Constraints: None. Value range: None. Default value: None.

Table 4-94 CodeEvent

Parameter	Mandatory	Type	Description
type	No	String	Definition: Event type. Constraints: N/A Value range: • merge_request: triggered by an MR. • push: triggered by code push. • tag_push: triggered by a tag. • issue: triggered by a Gitee repository issue. • note: triggered by a Gitee repository comment. Default value: N/A
enable	No	Boolean	Definition: Whether the code repository is available. Constraints: N/A Value range: • true: The code repository is available. • false: The code repository is unavailable. Default value: N/A

Table 4-95 PipelineConcurrencyMgmt

Parameter	Mandatory	Type	Description
pipeline_id	No	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: 32 characters. Default value: N/A
concurrency_number	No	Integer	Definition: Number of concurrent pipeline executions. It varies by your package and purchased concurrency.. Constraints: N/A Value range: N/A Default value: N/A
exceed_action	No	String	Definition: Policy when the number of concurrent requests exceeds the upper limit. Constraints: N/A Value range: ● ABORT: Ignore the request. ● QUEUE: Wait in a queue. Default value: N/A

Parameter	Mandatory	Type	Description
create_time	No	Long	Parameter description: Creation time. Constraints: None. Value range: None. Default value: None.
update_time	No	Long	Parameter description: Update time. Constraints: None. Value range: None. Default value: None.
enable	No	Boolean	Definition: Whether to enable the rule. Constraints: N/A Value range: • true: enabled. • false: disabled. Default value: N/A

Response Parameters

Status code: 200

Table 4-96 Response body parameters

Parameter	Type	Description
pipeline_id	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Value range: The value consists of 32 characters, including only digits and letters.

Example Requests

```
PUT https://{endpoint}/v5/d80a8a6530324b7bac972cbb8a9f28ec/api/pipelines/
dab5232b7b354b6db37e695690218c9b

{
  "id" : "c0473f77481c4a12b254012876df71b6",
  "name" : "NewPipeline-20240202101359",
  "description" : null,
  "manifest_version" : 3.0,
  "is_publish" : false,
  "sources" : [ ],
  "variables" : [ ],
  "schedules" : null,
  "triggers" : [ ],
  "project_name" : null,
  "group_id" : null,
  "concurrency_control" : {
    "pipeline_id" : null,
    "concurrency_number" : 5,
    "exceed_action" : "ABORT",
    "create_time" : null,
    "update_time" : null,
    "enable" : false
  },
  "definition" : "{\n\"stages\": [{\n\"name\": \"Stage_1\", \"sequence\": \"0\", \"jobs\": [{\n\"id\": \"\", \"stage_id\
\n: 1706840051315, \"identifier\": \"JOB_HwdAJ\", \"name\": \"Subpipeline\", \"depends_on\": [], \"timeout
\n: \"\", \"timeout_unit\": \"\", \"steps\": [{\n\"name\": \"Subpipeline\", \"task\": \"official_devcloud_subPipeline
\n\", \"sequence\": 0, \"inputs\": [{\n\"key\": \"SYSTEM_DEVCLOUD_SUBPIPELINE_TRIGGER_ID\", \"value
\n\": \"dab5232b7b354b6db37e695690218c9b\", {\n\"key\": \"_OFFICIAL_DEVCLOUD_JOB_NAME_\", \"value
\n\": \"NewPipeline-blank\", {\n\"key\": \"_OFFICIAL_DEVCLOUD_JOB_VERSION_\", \"value
\n\": \"3.0\"}]}], \"business_type\": \"Normal\", \"runtime_attribution\": \"agent\", \"identifier
\n\": \"1706840079615af0c7bda-8885-4c31-b9e8-1b393b5b0e97\", \"multi_step_editable
\n\": 0, \"official_task_version\": \"0.0.18\", \"endpoint_ids\": []}, {\n\"resource\": \"\", \"type\": \"\", \"arch
\n\": \"\", \"x86\": \"\", \"condition\": \"${ default() }\", \"exec_type\": \"OCTOPUS_JOB\", \"sequence
\n\": 0, \"pipeline_id\": \"c0473f77481c4a12b254012876df71b6\"}], \"identifier\": \"1706840051315bca51592-
c211-49fe-ab76-bcf86f5efa84\", \"pre\": [{\n\"task\": \"official_devcloud_autoTrigger\", \"sequence\": 0}], \"post
\n\": null, \"depends_on\": [], \"run_always\": false, \"pipeline_id\": \"c0473f77481c4a12b254012876df71b6\"}]]\"
}
```

Example Responses

Status code: 200

OK

```
{
  "pipeline_id" : "8bfbd69eac154a0da341705a36294aca"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

import java.util.List;
import java.util.ArrayList;

public class UpdatePipelineInfoSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        UpdatePipelineInfoRequest request = new UpdatePipelineInfoRequest();
        request.withProjectId("{project_id}");
        request.withPipelineId("{pipeline_id}");
        PipelineDTO body = new PipelineDTO();
        PipelineConcurrencyMgmt concurrencyControlbody = new PipelineConcurrencyMgmt();
        concurrencyControlbody.withConcurrencyNumber(5)
            .withExceedAction("ABORT")
            .withEnable(false);
        body.withConcurrencyControl(concurrencyControlbody);
        body.withId("c0473f77481c4a12b254012876df71b6");
        body.withDefinition("{\"stages\": [{\"name\": \"Stage_1\", \"sequence\": \"0\", \"jobs\": [\"id\": \"\", \"stage_id\": \"1706840051315\", \"identifier\": \"JOB_HwdAJ\", \"name\": \"Subpipeline\", \"depends_on\": [\"timeout\": \"\", \"timeout_unit\": \"\", \"steps\": [{\"name\": \"Subpipeline\", \"task\": \"official_devcloud_subPipeline\", \"sequence\": \"0\", \"inputs\": [{\"key\": \"SYSTEM_DEVCLOUD_SUBPIPELINE_TRIGGER_ID\", \"value\": \"dab5232b7b354b6db37e695690218c9b\"}, {\"key\": \"_OFFICIAL_DEVCLOUD_JOB_NAME_\", \"value\": \"NewPipeline-blank\"}, {\"key\": \"_OFFICIAL_DEVCLOUD_JOB_VERSION_\", \"value\": \"3.0\"}], \"business_type\": \"Normal\", \"runtime_attribution\": \"agent\", \"identifier\": \"1706840079615af0c7bda-8885-4c31-b9e8-1b393b5b0e97\", \"multi_step_editable\": \"0\", \"official_task_version\": \"0.0.18\", \"endpoint_ids\": [\"type\": \"system\", \"arch\": \"x86\"}], \"condition\": \"${ default() }\", \"exec_type\": \"OCTOPUS_JOB\", \"sequence\": \"0\", \"pipeline_id\": \"c0473f77481c4a12b254012876df71b6\"}], \"identifier\": \"1706840051315bca51592-c211-49fe-ab76-bcf86f5efa84\", \"pre\": [{\"task\": \"official_devcloud_autoTrigger\", \"sequence\": \"0\"}], \"post\": null, \"depends_on\": [\"run_always\": false, \"pipeline_id\": \"c0473f77481c4a12b254012876df71b6\"}]}]");
        body.withManifestVersion("3.0");
        body.withIsPublish(false);
        body.withName("NewPipeline-20240202101359");
        request.withBody(body);
        try {
            UpdatePipelineInfoResponse response = client.updatePipelineInfo(request);
```

```
        System.out.println(response.toString());
    } catch (ConnectionException e) {
        e.printStackTrace();
    } catch (RequestTimeoutException e) {
        e.printStackTrace();
    } catch (ServiceResponseException e) {
        e.printStackTrace();
        System.out.println(e.getHttpStatusCode());
        System.out.println(e.getRequestId());
        System.out.println(e.getErrorCode());
        System.out.println(e.getErrorMsg());
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = UpdatePipelineInfoRequest()
        request.project_id = "{project_id}"
        request.pipeline_id = "{pipeline_id}"
        concurrencyControlbody = PipelineConcurrencyMgmt(
            concurrency_number=5,
            exceed_action="ABORT",
            enable=False
        )
        request.body = PipelineDTO(
            concurrency_control=concurrencyControlbody,
            id="c0473f77481c4a12b254012876df71b6",
            definition="{
                'stages': [
                    {
                        'name': 'Stage_1',
                        'sequence': '0',
                        'jobs': [
                            {
                                'id': '',
                                'stage_id': '1706840051315',
                                'identifier': 'JOB_HwdAJ',
                                'name': 'Subpipeline',
                                'depends_on': [
                                    {
                                        'name': 'Subpipeline',
                                        'task': 'official_devcloud_subPipeline',
                                        'sequence': '0',
                                        'inputs': [
                                            {
                                                'key': 'SYSTEM_DEVCLOUD_SUBPIPELINE_TRIGGER_ID',
                                                'value': 'dab5232b7b354b6db37e695690218c9b',
                                                'key': '_OFFICIAL_DEVCLOUD_JOB_NAME_',
                                                'value': 'NewPipeline-blank',
                                                'key': '_OFFICIAL_DEVCLOUD_JOB_VERSION_',
                                                'value': '3.0'
                                            }
                                        ],
                                                'business_type': 'Normal',
                                                'runtime_attribute': 'agent',
                                                'identifier': '1706840079615af0c7bda-8885-4c31-b9e8-1b393b5b0e97',
                                                'multi_step_editable': '0',
                                                'official_task_version': '0.0.18',
                                                'endpoint_ids': [
                                                    {
                                                        'resource': {
                                                            'type': 'system',
                                                            'arch': 'x86'
                                                        },
                                                        'condition': '$
                                                        { default() }',
                                                        'exec_type': 'OCTOPUS_JOB',
                                                        'sequence': '0',
                                                        'pipeline_id': 'c0473f77481c4a12b254012876df71b6'
                                                    }
                                                ],
                                                        'identifier': '1706840051315bca51592-c211-49fe-ab76-bcf86f5efa84',
                                                        'pre': [
                                                            {
                                                                'task': 'official_devcloud_autoTrigger',
                                                                'sequence': '0'
                                                            }
                                                        ],
                                                        'post': null,
                                                        'depends_on': [
                                                            {
                                                                'run_always': false,
                                                                'pipeline_id': 'c0473f77481c4a12b254012876df71b6'
                                                            }
                                                        ],
                                                        'manifest_version': '3.0',
                                                        'is_publish': False,
                                                    }
                                                ]
                                            }
                                        ]
                                    }
                                ]
                            }
                        ]
                    }
                ]
            }",
            timeout="",
            timeout_unit="",
            steps: [
                {
                    'name': 'Subpipeline',
                    'task': 'official_devcloud_subPipeline',
                    'sequence': '0',
                    'inputs': [
                        {
                            'key': 'SYSTEM_DEVCLOUD_SUBPIPELINE_TRIGGER_ID',
                            'value': 'dab5232b7b354b6db37e695690218c9b',
                            'key': '_OFFICIAL_DEVCLOUD_JOB_NAME_',
                            'value': 'NewPipeline-blank',
                            'key': '_OFFICIAL_DEVCLOUD_JOB_VERSION_',
                            'value': '3.0'
                        }
                    ],
                    'business_type': 'Normal',
                    'runtime_attribute': 'agent',
                    'identifier': '1706840079615af0c7bda-8885-4c31-b9e8-1b393b5b0e97',
                    'multi_step_editable': '0',
                    'official_task_version': '0.0.18',
                    'endpoint_ids': [
                        {
                            'resource': {
                                'type': 'system',
                                'arch': 'x86'
                            },
                            'condition': '$
                            { default() }',
                            'exec_type': 'OCTOPUS_JOB',
                            'sequence': '0',
                            'pipeline_id': 'c0473f77481c4a12b254012876df71b6'
                        }
                    ],
                            'identifier': '1706840051315bca51592-c211-49fe-ab76-bcf86f5efa84',
                            'pre': [
                                {
                                    'task': 'official_devcloud_autoTrigger',
                                    'sequence': '0'
                                }
                            ],
                            'post': null,
                            'depends_on': [
                                {
                                    'run_always': false,
                                    'pipeline_id': 'c0473f77481c4a12b254012876df71b6'
                                }
                            ],
                            'manifest_version': '3.0',
                            'is_publish': False,
                        }
                    ]
                }
            ]
        )
        request.timeout = ""
        request.timeout_unit = ""
        request.steps = [
            {
                'name': 'Subpipeline',
                'task': 'official_devcloud_subPipeline',
                'sequence': '0',
                'inputs': [
                    {
                        'key': 'SYSTEM_DEVCLOUD_SUBPIPELINE_TRIGGER_ID',
                        'value': 'dab5232b7b354b6db37e695690218c9b',
                        'key': '_OFFICIAL_DEVCLOUD_JOB_NAME_',
                        'value': 'NewPipeline-blank',
                        'key': '_OFFICIAL_DEVCLOUD_JOB_VERSION_',
                        'value': '3.0'
                    }
                ],
                'business_type': 'Normal',
                'runtime_attribute': 'agent',
                'identifier': '1706840079615af0c7bda-8885-4c31-b9e8-1b393b5b0e97',
                'multi_step_editable': '0',
                'official_task_version': '0.0.18',
                'endpoint_ids': [
                    {
                        'resource': {
                            'type': 'system',
                            'arch': 'x86'
                        },
                        'condition': '$
                        { default() }',
                        'exec_type': 'OCTOPUS_JOB',
                        'sequence': '0',
                        'pipeline_id': 'c0473f77481c4a12b254012876df71b6'
                    }
                ],
                        'identifier': '1706840051315bca51592-c211-49fe-ab76-bcf86f5efa84',
                        'pre': [
                            {
                                'task': 'official_devcloud_autoTrigger',
                                'sequence': '0'
                            }
                        ],
                        'post': null,
                        'depends_on': [
                            {
                                'run_always': false,
                                'pipeline_id': 'c0473f77481c4a12b254012876df71b6'
                            }
                        ],
                        'manifest_version': '3.0',
                        'is_publish': False,
                    }
                ]
            }
        ]
    }
```

```
        name="NewPipeline-20240202101359"
    )
    response = client.update_pipeline_info(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UpdatePipelineInfoRequest{}
    request.ProjectId = "{project_id}"
    request.PipelineId = "{pipeline_id}"
    concurrencyNumberConcurrencyControl := int32(5)
    exceedActionConcurrencyControl := "ABORT"
    enableConcurrencyControl := false
    concurrencyControlbody := &model.PipelineConcurrencyMgmt{
        ConcurrencyNumber: &concurrencyNumberConcurrencyControl,
        ExceedAction: &exceedActionConcurrencyControl,
        Enable: &enableConcurrencyControl,
    }
    idPipelineDto := "c0473f77481c4a12b254012876df71b6"
    manifestVersionPipelineDto := "3.0"
    request.Body = &model.PipelineDto{
        ConcurrencyControl: concurrencyControlbody,
        Id: &idPipelineDto,
        Definition: "{\"stages\": [{\"name\": \"Stage_1\", \"sequence\": \"0\", \"jobs\":\n\":[\n{\n\"id\": \"\", \"stage_id\": \"1706840051315\", \"identifier\": \"JOB_HwdAJ\", \"name\": \"Subpipeline\", \"depends_on\":\n[\n], \"timeout\": \"\", \"timeout_unit\": \"\", \"steps\":\n[\n{\n\"name\": \"Subpipeline\", \"task\": \"official_devcloud_subPipeline\", \"sequence\": \"0\", \"inputs\":\n[\n{\n\"key\": \"SYSTEM_DEVCLOUD_SUBPIPELINE_TRIGGER_ID\", \"value\": \"dab5232b7b354b6db37e695690218c9b\", \n{\n\"key\": \"_OFFICIAL_DEVCLOUD_JOB_NAME_\", \"value\": \"NewPipeline-blank\", \n{\n\"key\": \"_OFFICIAL_DEVCLOUD_JOB_VERSION_\", \"value\": \"3.0\" \n}], \"business_type\": \"Normal\", \"runtime_attributio\nn\": \"agent\", \"identifier\": \"1706840079615af0c7bda-8885-4c31-\nb9e8-1b393b5b0e97\", \"multi_step_editable\": \"0\", \"official_task_version\": \"0.0.18\", \"endpoint_ids\":\n[\n[] \n], \"resource\": {\n\"type\": \"system\", \"arch\": \"x86\" \n}, \"condition\": \"$\n{{ default() }}\", \"exec_type\": \"OCTOPUS_JOB\", \"sequence\": \"0\", \"pipeline_id\": \"c0473f77481c4a12b254012876df71
```



```
b6"}], "identifier": "1706840051315bca51592-c211-49fe-ab76-bcf86f5efa84", "pre":  
[{"task": "official_devcloud_autoTrigger", "sequence": 0}], "post": null, "depends_on":  
[], "run_always": false, "pipeline_id": "c0473f77481c4a12b254012876df71b6"}]],  
    ManifestVersion: &manifestVersionPipelineDto,  
    IsPublish: false,  
    Name: "NewPipeline-20240202101359",  
  }  
  response, err := client.UpdatePipelineInfo(request)  
  if err == nil {  
    fmt.Printf("%+v\n", response)  
  } else {  
    fmt.Println(err)  
  }  
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.2.8 Stopping a Pipeline

Function

This API is used to stop a pipeline.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v5/{project_id}/api/pipelines/{pipeline_id}/pipeline-runs/{pipeline_run_id}/stop

Table 4-97 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipeline_run_id	Yes	String	Definition: Pipeline run ID. The return value of the API for starting a pipeline is the pipeline run ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-98 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-99 Response body parameters

Parameter	Type	Description
success	Boolean	Definition: Whether the operation is successful. Value range: • true: The operation is successful. • false: The operation fails.

Example Requests

```
POST https://{endpoint}/v5/93d8e0553c20411fba06bb112b5b59af/api/pipelines/794514e0a3184e5db0a4740112deee0f/pipeline-runs/de6c9098f45a4ac58a6efc9c1b81df82/stop
```

Example Responses

Status code: 200

OK

```
{
  "success" : true
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class StopPipelineRunSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        StopPipelineRunRequest request = new StopPipelineRunRequest();
        request.withProjectId("{project_id}");
        request.withPipelineId("{pipeline_id}");
        request.withPipelineRunId("{pipeline_run_id}");
        try {
            StopPipelineRunResponse response = client.stopPipelineRun(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *
```

```
if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = StopPipelineRunRequest()
        request.project_id = "{project_id}"
        request.pipeline_id = "{pipeline_id}"
        request.pipeline_run_id = "{pipeline_run_id}"
        response = client.stop_pipeline_run(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.StopPipelineRunRequest{}
    request.ProjectId = "{project_id}"
    request.PipelineId = "{pipeline_id}"
    request.PipelineRunId = "{pipeline_run_id}"
    response, err := client.StopPipelineRun(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
```

```
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.2.9 Obtaining Pipeline Execution Records

Function

This API is used to obtain pipeline execution records.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v5/{project_id}/api/pipelines/{pipeline_id}/pipeline-runs/list

Table 4-100 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-101 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Table 4-102 Request body parameters

Parameter	Mandatory	Type	Description
status	No	Array of strings	Definition: Pipeline status list. Constraints: N/A Value range: • COMPLETED: The instance is completed. • RUNNING: The instance is running. • FAILED: The instance failed. • CANCELED: The instance is canceled. • PAUSED: The instance is paused. • SUSPEND: The instance is suspended. • IGNORED: The pipeline is ignored. Default value: N/A

Parameter	Mandatory	Type	Description
start_time	No	String	Definition: Pipeline start time. Constraints: N/A Value range: The value can be a timestamp or in the YYYY-MM-DD HH:MM:SS format. Default value: N/A
end_time	No	String	Definition: Pipeline end time. Constraints: N/A Value range: The value can be a timestamp or in the YYYY-MM-DD HH:MM:SS format. Default value: N/A
offset	No	Long	Parameter description: Initial offset. Constraints: None. Value range: No less than 0. Default value: None.
limit	No	Long	Parameter description: Number of records to be queried. Constraints: N/A Value range: No less than 0. Default value: N/A

Parameter	Mandatory	Type	Description
sort_key	No	String	Definition: Sorting field. Constraints: N/A Value range: start_time - pipeline start time. Default value: N/A
sort_dir	No	String	Definition: Sorting rule. Constraints: N/A Value range: • asc: by sorting field in ascending order. • desc: by sorting field in descending order. Default value: N/A

Response Parameters

Status code: 200

Table 4-103 Response body parameters

Parameter	Type	Description
offset	Integer	Parameter description: Initial offset. Value range: None.
limit	Integer	Parameter description: Number of queried records. Value range: None.

Parameter	Type	Description
total	Integer	Parameter description: Total number of execution records. Value range: None.
pipeline_runs	Array of pipeline_runs objects	Parameter description: Pipeline running information list. Value range: None.

Table 4-104 pipeline_runs

Parameter	Type	Description
pipeline_id	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Value range: The value consists of 32 characters, including only digits and letters.
pipeline_run_id	String	Definition: Pipeline run ID. The return value of the API for starting a pipeline is the pipeline run ID. Value range: The value consists of 32 characters, including only digits and letters.
executor_id	String	Parameter description: Executor ID. Value range: 32 characters, including only digits and letters.
executor_name	String	Parameter description: Executor name. Value range: None.

Parameter	Type	Description
stage_status_list	Array of stage_status_list objects	Parameter description: Stage information list. Value range: None.
status	String	Definition: Pipeline run status. Value range: • COMPLETED: The instance is completed. • RUNNING: The instance is running. • FAILED: The instance failed. • CANCELED: The instance is canceled. • PAUSED: The instance is paused. • SUSPEND: The instance is suspended. • IGNORED: The instance is ignored.
run_number	Integer	Parameter description: Pipeline running sequence number. Value range: No less than 1.
trigger_type	String	Definition: Trigger type. Value range: • Manual: triggered manually. • Scheduler: triggered by a scheduled task. • MR: triggered by an MR. • Push: triggered by a push event. • CreateTag: triggered by a tag. • Issue: triggered by an issue. • Note: triggered by a comment.
build_params	build_params object	Parameter description: Build parameters. Value range: None.

Parameter	Type	Description
artifact_params	artifact_params object	Parameter description: Artifact parameters. Value range: None.
start_time	Long	Definition: Pipeline start time. Value range: N/A
end_time	Long	Definition: Pipeline end time. Value range: N/A
detail_url	String	Parameter description: URL of the details page. If the region information in x-auth-token is empty, the details page URL is also empty. Value range: N/A
modify_url	String	Parameter description: URL of the editing page. If the region information in x-auth-token is empty, the URL of the editing page is also empty. Value range: N/A

Table 4-105 stage_status_list

Parameter	Type	Description
name	String	Parameter description: Stage name. Value range: Enter only letters, digits, hyphens (-), underscores (_), commas (,), semicolons (;), colons (:), periods (.), slashes (/), parentheses (), and spaces. The name cannot start or end with a space, and the length is 1128 characters.

Parameter	Type	Description
sequence	Integer	Parameter description: Stage sequence number. The value 0 indicates the first pipeline stage. Value range: No less than 0 .
status	String	Definition: Pipeline stage status. Value range: • INIT: The stage is being initialized. • QUEUED: The stage is queuing. • RUNNING: The stage is running. • CANCELED: The stage is canceled. • COMPLETED: The stage is completed. • FAILED: The stage is failed. • SKIPPED: The stage is skipped. • IGNORED: The stage is ignored. • PAUSED: The stage is paused. • SUSPEND: The stage is suspended. • ASYNC_RUNNING: The stage is running asynchronously. • ASYNC_FAILED: The pipeline failed during asynchronous execution. • UNSELECTED: The stage is unselected. • REDISPATCH: The stage is rescheduled.
start_time	String	Parameter description: Stage start time. Value range: None.
end_time	String	Parameter description: Stage end time. Value range: None.
id	String	Parameter description: Stage ID. Value range: None.

Table 4-106 build_params

Parameter	Type	Description
action	String	Definition: Merge request type. Value range: • open: The merge request is opened. • reopen: The merge request is reopened. • update: The merge request is updated. • merge: The merge request is merged.
build_type	String	Definition: Triggered by a branch or a tag. Value range: • branch: triggered by a branch. • tag: triggered by a tag.
commit_id	String	Parameter description: Code repository commit ID. Value range: None.
event_type	String	Definition: Type of a running event. Value range: • Manual: triggered manually. • Scheduler: triggered by a scheduled task. • MR: triggered by an MR. • Push: triggered by a push event. • CreateTag: triggered by a tag. • Issue: triggered by an issue. • Note: triggered by a comment.
merge_id	String	Parameter description: Merge request ID. Value range: None.

Parameter	Type	Description
message	String	Parameter description: Code commit message. Value range: None.
source_branch	String	Parameter description: Source branch. Value range: None.
tag	String	Parameter description: Tag. Value range: None.
target_branch	String	Parameter description: Target branch. Value range: None.
codehub_id	String	Parameter description: Repo code repository ID. Value range: None.
git_url	String	Parameter description: HTTPS address of the code repository. Value range: None.
source_codehub_id	String	Parameter description: ID of the source Repo code repository. Value range: None.
source_codehub_url	String	Parameter description: Address of the source Repo code repository. Value range: None.

Parameter	Type	Description
source_codehub_http_url	String	Parameter description: HTTP address of the source Repo code repository. Value range: None.

Table 4-107 artifact_params

Parameter	Type	Description
version	String	Parameter description: Package version. Value range: None.
branch_filter	String	Parameter description: Branch filter. Value range: None.
package_name	String	Parameter description: Package name. Value range: None.
organization	String	Parameter description: Docker organization. Value range: None.

Example Requests

This API is used to obtain pipeline execution records.

Set the start offset to 0, quantity to 10, start timestamp to 1677513600000, and end timestamp to 1678118399000, and sort the query results in descending order of the start time.

```
POST https://{endpoint}/v5/54f90b75fc1447b1b65e8d3a9f77923d/api/pipelines/
e5460d1d403146a1935c2d4b68ef506c/pipeline-runs/list

{
  "offset" : 0,
  "limit" : 10,
  "status" : [ "COMPLETED", "RUNNING", "FAILED", "CANCELED", "PAUSED", "SUSPEND" ],
  "sort_key" : "start_time",
  "sort_dir" : "DESC",
```

```
"start_time" : 1677513600000,  
"end_time" : 1678118399000  
}
```

Example Responses

Status code: 200

OK

```
{  
  "offset" : 0,  
  "limit" : 10,  
  "total" : 1,  
  "pipeline_runs" : [ {  
    "pipeline_id" : "24949d4f4453495f8e5a76f993af7f43",  
    "pipeline_run_id" : "ddb7532cb0e948f2af7bb4397fc19864",  
    "executor_id" : "847a5317086c41798469d0868535943a",  
    "executor_name" : "Beta environment account",  
    "stage_status_list" : [ {  
      "name" : "Phase_1",  
      "sequence" : 0,  
      "status" : "COMPLETED",  
      "start_time" : "2023-03-06 10:04:46",  
      "end_time" : "2023-03-06 10:04:46"  
    } ],  
    "status" : "COMPLETED",  
    "run_number" : 11,  
    "trigger_type" : "Manual",  
    "build_params" : {  
      "action" : null,  
      "build_type" : "branch",  
      "commit_id" : "990ea057751d299f5575aac25bf97e88a60b461e",  
      "event_type" : "Manual",  
      "merge_id" : null,  
      "message" : "Creating a Dockerfile",  
      "source_branch" : null,  
      "tag" : null,  
      "target_branch" : "cloud_pipeline_release_1674026917209",  
      "codehub_id" : "2111677704",  
      "git_url" : "https://example.com/clsyz00001/aaaaa.git"  
    },  
    "artifact_params" : null,  
    "start_time" : 1678066487000,  
    "end_time" : 1678066488000  
  } ]  
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

This API is used to obtain pipeline execution records.

Set the start offset to 0, quantity to 10, start timestamp to 1677513600000, and end timestamp to 1678118399000, and sort the query results in descending order of the start time.

```
package com.huaweicloud.sdk.test;  
  
import com.huaweicloud.sdk.core.auth.ICredential;  
import com.huaweicloud.sdk.core.auth.BasicCredentials;  
import com.huaweicloud.sdk.core.exception.ConnectionException;
```

```
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

import java.util.List;
import java.util.ArrayList;

public class ListPipelineRunsSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        ListPipelineRunsRequest request = new ListPipelineRunsRequest();
        request.withProjectId("{project_id}");
        request.withPipelineId("{pipeline_id}");
        ListPipelineRunsQuery body = new ListPipelineRunsQuery();
        List<String> listbodyStatus = new ArrayList<>();
        listbodyStatus.add("COMPLETED");
        listbodyStatus.add("RUNNING");
        listbodyStatus.add("FAILED");
        listbodyStatus.add("CANCELED");
        listbodyStatus.add("PAUSED");
        listbodyStatus.add("SUSPEND");
        body.withSortDir("DESC");
        body.withSortKey("start_time");
        body.withLimit(10L);
        body.withOffset(0L);
        body.withEndTime("1678118399000");
        body.withStartTime("1677513600000");
        body.withStatus(listbodyStatus);
        request.withBody(body);
        try {
            ListPipelineRunsResponse response = client.listPipelineRuns(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

This API is used to obtain pipeline execution records.

Set the start offset to 0, quantity to 10, start timestamp to 1677513600000, and end timestamp to 1678118399000, and sort the query results in descending order of the start time.

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListPipelineRunsRequest()
        request.project_id = "{project_id}"
        request.pipeline_id = "{pipeline_id}"
        listStatusbody = [
            "COMPLETED",
            "RUNNING",
            "FAILED",
            "CANCELED",
            "PAUSED",
            "SUSPEND"
        ]
        request.body = ListPipelineRunsQuery(
            sort_dir="DESC",
            sort_key="start_time",
            limit=10,
            offset=0,
            end_time="1678118399000",
            start_time="1677513600000",
            status=listStatusbody
        )
        response = client.list_pipeline_runs(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

This API is used to obtain pipeline execution records.

Set the start offset to 0, quantity to 10, start timestamp to 1677513600000, and end timestamp to 1678118399000, and sort the query results in descending order of the start time.

```
package main
```

```
import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListPipelineRunsRequest{}
    request.ProjectId = "{project_id}"
    request.PipelineId = "{pipeline_id}"
    var listStatusbody = []string{
        "COMPLETED",
        "RUNNING",
        "FAILED",
        "CANCELED",
        "PAUSED",
        "SUSPEND",
    }
    sortDirListPipelineRunsQuery:= "DESC"
    sortKeyListPipelineRunsQuery:= "start_time"
    limitListPipelineRunsQuery:= int64(10)
    offsetListPipelineRunsQuery:= int64(0)
    endTimeListPipelineRunsQuery:= "1678118399000"
    startTimeListPipelineRunsQuery:= "1677513600000"
    request.Body = &model.ListPipelineRunsQuery{
        SortDir: &sortDirListPipelineRunsQuery,
        SortKey: &sortKeyListPipelineRunsQuery,
        Limit: &limitListPipelineRunsQuery,
        Offset: &offsetListPipelineRunsQuery,
        EndTime: &endTimeListPipelineRunsQuery,
        StartTime: &startTimeListPipelineRunsQuery,
        Status: &listStatusbody,
    }
    response, err := client.ListPipelineRuns(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.2.10 Creating a Pipeline With a Template

Function

This API is used to create a pipeline using a template.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v5/{project_id}/api/pipeline-templates/{template_id}/create-pipeline

Table 4-108 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Parameter	Mandatory	Type	Description
template_id	Yes	String	Definition: Template ID, which is the unique identifier of a template. Obtain the template ID by calling the API for querying templates . templates.id indicates the template ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Table 4-109 Query Parameters

Parameter	Mandatory	Type	Description
component_id	No	String	Definition: Pipeline microservice ID. Obtain the ID by calling the API for querying microservices . data.id indicates the microservice ID. Constraints: N/A Value range: The value consists of 32 characters, including only digits and letters. Default value: N/A

Request Parameters

Table 4-110 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Table 4-111 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Parameter description: Pipeline name. Constraints: None. Value range: The value can contain only letters, digits, hyphens (-), and underscores (_). The length is 1128 characters. Default value: None.
description	No	String	Parameter description: Pipeline description. Constraints: N/A Value range: Max. 1024 characters. Default value: N/A

Parameter	Mandatory	Type	Description
is_publish	Yes	Boolean	Definition: Whether the pipeline is a change-triggered pipeline. Constraints: N/A Value range: • true: The pipeline is a change-triggered pipeline. • false: The pipeline is not a change-triggered pipeline. Default value: N/A
sources	Yes	Array of CodeSource objects	Parameter description: Pipeline source list. Constraints: N/A Value range: N/A Default value: N/A
variables	No	Array of variables objects	Parameter description: Pipeline parameter list. Constraints: N/A Value range: N/A Default value: N/A

Table 4-112 CodeSource

Parameter	Mandatory	Type	Description
type	No	String	Definition: Pipeline source type. Currently, code and artifact are supported. Constraints: N/A Value range: N/A Default value: N/A
params	No	params object	Parameter description: Pipeline source parameters, including details about the pipeline source. Constraints: N/A Value range: N/A Default value: N/A

Table 4-113 params

Parameter	Mandatory	Type	Description
git_type	No	String	Definition: Code repository type. Constraints: N/A Value range: • CodeArts Repo. • Gitee. • GitHub. • GitCode. • GitLab. Default value: N/A

Parameter	Mandatory	Type	Description
codehub_id	No	String	Parameter description: CodeArts Repo code repository ID. Constraints: None. Value range: None. Default value: None.
endpoint_id	No	String	Parameter description: Code source endpoint ID. Constraints: None. Value range: None. Default value: None.
default_branch	No	String	Parameter description: Default branch. Constraints: None. Value range: None. Default value: None.
git_url	No	String	Parameter description: HTTPS address of the Git repository, for example, https://example.com/CloudPipelinezycs00001/2000.git . Constraints: None. Value range: None. Default value: None.

Parameter	Mandatory	Type	Description
ssh_git_url	No	String	Parameter description: ssh_git address, for example, https://example.com/CloudPipelinezycs00001/2000.git. Constraints: None. Value range: None. Default value: None.
web_url	No	String	Parameter description: Web page URL. Constraints: None. Value range: None. Default value: None.
repo_name	No	String	Parameter description: Pipeline source name. Constraints: None. Value range: None. Default value: None.
alias	No	String	Definition: Code repository alias. Constraints: N/A Value range: Enter a maximum of 128 characters. Only letters, digits, and underscores (_) are supported. Default value: N/A

Table 4-114 variables

Parameter	Mandatory	Type	Description
name	No	AnyType	Parameter description: Parameter name. Constraints: None. Value range: None. Default value: None.
sequence	No	Integer	Parameter description: Parameter sequence number, which starts from 1 and increases in ascending order. Constraints: N/A Value range: N/A Default value: N/A
type	No	String	Definition: Parameter type. Constraints: N/A Value range: • autoIncrement: auto-increment parameter. • enum: enumerated parameter. • string: string parameter. Default value: N/A
value	No	String	Parameter description: Parameter value. Constraints: N/A Value range: Max. 8192 characters. Default value: N/A

Parameter	Mandatory	Type	Description
is_secret	No	Boolean	Definition: Private parameter or not. Constraints: N/A Value range: • true: The parameter is private. • false: The parameter is not private. Default value: false.
description	No	String	Definition: Parameter description. Constraints: N/A Value range: Max. 512 characters. Default value: N/A
is_runtime	No	Boolean	Definition: Whether a parameter can be set at runtime. Constraints: N/A Value range: • true: The parameter can be set at runtime. • false: The parameter cannot be set at runtime. Default value: false.

Parameter	Mandatory	Type	Description
is_reset	No	Boolean	Definition: Whether to reset. If the auto-increment parameter is edited, the edited value is used. Otherwise, the last digit increases. Constraints: N/A Value range: • true: Use the edited parameter value. • false: Use the auto-increment parameter. Default value: false.
latest_value	No	String	Definition: Value of the parameter in the last run. Constraints: N/A Value range: Max. 8,192 characters. Default value: N/A
limits	No	Array of strings	Parameter description: List of enumerated values. Constraints: None. Value range: Up to 1,024 characters. Default value: None.

Response Parameters

Status code: 200

Table 4-115 Response body parameters

Parameter	Type	Description
pipeline_id	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Value range: The value consists of 32 characters, including only digits and letters.

Example Requests

Create a pipeline based on a template.

Set the pipeline name to New pipeline-2023041516464511, code repository to test001.git, and default branch to master.

```
POST https://{endpoint}/v5/54f90b75fc1447b1b65e8d3a9f77923d/api/pipeline-templates/434d660a96de423a935a0571c2223bca/create-pipeline
```

```
{
  "name" : "New Pipeline - 2023041516464511",
  "description" : "",
  "is_publish" : false,
  "sources" : [ {
    "type" : "code",
    "params" : {
      "git_type" : "codehub",
      "codehub_id" : "2111717853",
      "endpoint_id" : "",
      "default_branch" : "master",
      "git_url" : "https://example.com/cjrTest00002/test001.git",
      "ssh_git_url" : "git@example.com:cjrTest00002/test001.git",
      "web_url" : "",
      "repo_name" : "test001",
      "alias" : ""
    }
  } ]
}
```

Example Responses

Status code: 200

OK

```
{
  "pipeline_id" : "ad6b7f66283a45be9c1f82b06c831e59"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

Create a pipeline based on a template.

Set the pipeline name to New pipeline-2023041516464511, code repository to test001.git, and default branch to master.

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

import java.util.List;
import java.util.ArrayList;

public class CreatePipelineByTemplateIdSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();

        CreatePipelineByTemplateIdRequest request = new CreatePipelineByTemplateIdRequest();
        request.withTemplateId("{template_id}");
        request.withProjectId("{project_id}");
        PipelineByTemplateDTO body = new PipelineByTemplateDTO();
        CodeSourceParams paramsSources = new CodeSourceParams();
        paramsSources.withGitType("codehub")
            .withCodehubId("2111717853")
            .withEndpointId("")
            .withDefaultBranch("master")
            .withGitUrl("https://example.com/cjrTest00002/test001.git")
            .withSshGitUrl("git@example.com:cjrTest00002/test001.git")
            .withWebUrl("")
            .withRepoName("test001")
            .withAlias("");
        List<CodeSource> listbodySources = new ArrayList<>();
        listbodySources.add(
            new CodeSource()
                .withType("code")
                .withParams(paramsSources)
        );
        body.withSources(listbodySources);
        body.withIsPublish(false);
        body.withDescription("");
        body.withName("New Pipeline - 2023041516464511");
        request.withBody(body);
        try {
            CreatePipelineByTemplateIdResponse response = client.createPipelineByTemplateId(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
```

```
        e.printStackTrace();
    } catch (RequestTimeoutException e) {
        e.printStackTrace();
    } catch (ServiceResponseException e) {
        e.printStackTrace();
        System.out.println(e.getHttpStatusCode());
        System.out.println(e.getRequestId());
        System.out.println(e.getErrorCode());
        System.out.println(e.getErrorMsg());
    }
}
}
```

Python

Create a pipeline based on a template.

Set the pipeline name to New pipeline-2023041516464511, code repository to test001.git, and default branch to master.

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = CreatePipelineByTemplateIdRequest()
        request.template_id = "{template_id}"
        request.project_id = "{project_id}"
        paramsSources = CodeSourceParams(
            git_type="codehub",
            codehub_id="2111717853",
            endpoint_id="",
            default_branch="master",
            git_url="https://example.com/cjrTest00002/test001.git",
            ssh_git_url="git@example.com:cjrTest00002/test001.git",
            web_url="",
            repo_name="test001",
            alias=""
        )
        listSourcesbody = [
            CodeSource(
                type="code",
                params=paramsSources
            )
        ]
        request.body = PipelineByTemplateDTO(
            sources=listSourcesbody,
            is_publish=False,
```

```
        description="",
        name="New Pipeline - 2023041516464511"
    )
    response = client.create_pipeline_by_template_id(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

Create a pipeline based on a template.

Set the pipeline name to New pipeline-2023041516464511, code repository to test001.git, and default branch to master.

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.CreatePipelineByTemplateIdRequest{}
    request.TemplateId = "{template_id}"
    request.ProjectId = "{project_id}"
    gitTypeParams:= "codehub"
    codehubIdParams:= "2111717853"
    endpointIdParams:= ""
    defaultBranchParams:= "master"
    gitUrlParams:= "https://example.com/cjrTest00002/test001.git"
    sshGitUrlParams:= "git@example.com:cjrTest00002/test001.git"
    webUrlParams:= ""
    repoNameParams:= "test001"
    aliasParams:= ""
    paramsSources := &model.CodeSourceParams{
        GitType: &gitTypeParams,
        CodehubId: &codehubIdParams,
        EndpointId: &endpointIdParams,
        DefaultBranch: &defaultBranchParams,
        GitUrl: &gitUrlParams,
        SshGitUrl: &sshGitUrlParams,
        WebUrl: &webUrlParams,
```

```
RepoName: &repoNameParams,
Alias: &aliasParams,
}
typeSources:= "code"
var listSourcesbody = []model.CodeSource{
{
Type: &typeSources,
Params: paramsSources,
},
}
descriptionPipelineByTemplateDto:= ""
request.Body = &model.PipelineByTemplateDto{
Sources: listSourcesbody,
IsPublish: false,
Description: &descriptionPipelineByTemplateDto,
Name: "New Pipeline - 2023041516464511",
}
response, err := client.CreatePipelineByTemplateId(request)
if err == nil {
fmt.Printf("%v\n", response)
} else {
fmt.Println(err)
}
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.2.11 Creating a Pipeline

Function

This API is used to create a pipeline.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v5/{project_id}/api/pipelines

Table 4-116 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Table 4-117 Query Parameters

Parameter	Mandatory	Type	Description
component_id	No	String	Definition: Microservice ID. Obtain the ID by calling the API for querying microservices . data.id indicates the microservice ID. Constraints: N/A Value range: N/A Default value: N/A

Request Parameters

Table 4-118 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Table 4-119 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Parameter description: Pipeline name. Constraints: None. Value range: The value can contain only letters, digits, hyphens (-), and underscores (_). The length is 1128 characters. Default value: None.
description	No	String	Parameter description: Pipeline description. Constraints: N/A Value range: Max. 1024 characters. Default value: N/A

Parameter	Mandatory	Type	Description
is_publish	Yes	Boolean	Definition: Whether the pipeline is a change-triggered pipeline. Constraints: N/A Value range: • true: The pipeline is a change-triggered pipeline. • false: The pipeline is not a change-triggered pipeline. Default value: N/A
sources	No	Array of CodeSource objects	Parameter description: Pipeline source information. Constraints: None. Value range: None. Default value: None.
variables	No	Array of CustomVariable objects	Parameter description: List of custom pipeline global variables. Constraints: None. Value range: None. Default value: None.
schedules	No	Array of PipelineSchedule objects	Parameter description: List of pipeline scheduled execution configurations. Constraints: None. Value range: None. Default value: None.

Parameter	Mandatory	Type	Description
triggers	No	Array of PipelineTrigger objects	Parameter description: Configurations of pipeline event triggers. Constraints: None. Value range: None. Default value: None.
manifest_version	No	String	Definition: Version of the pipeline structure definition. Constraints: N/A Value range: N/A Default value: 3.0.
definition	Yes	String	Definition: Pipeline structure definition JSON. The structure of this field is complex. You are advised to edit the pipeline on the web UI and obtain the field from the API for querying pipeline details . Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
project_name	No	String	Parameter description: Project name. Constraints: None. Value range: None. Default value: None.
group_id	No	String	Parameter description: Pipeline group ID. Constraints: None. Value range: 32 characters, including only digits and letters. Default value: None.
id	No	String	Parameter description: Pipeline group ID, which is used for the cloning scenario. Constraints: None. Value range: 32 characters, including only digits and letters. Default value: None.
concurrency_control	No	PipelineConcurrencyMgmt object	Definition: Pipeline concurrency control information. Constraints: N/A Value range: N/A Default value: N/A

Table 4-120 CodeSource

Parameter	Mandatory	Type	Description
type	No	String	Definition: Pipeline source type. Currently, code and artifact are supported. Constraints: N/A Value range: N/A Default value: N/A
params	No	params object	Parameter description: Pipeline source parameters, including details about the pipeline source. Constraints: N/A Value range: N/A Default value: N/A

Table 4-121 params

Parameter	Mandatory	Type	Description
git_type	No	String	Definition: Code repository type. Constraints: N/A Value range: • CodeArts Repo. • Gitee. • GitHub. • GitCode. • GitLab. Default value: N/A

Parameter	Mandatory	Type	Description
codehub_id	No	String	Parameter description: CodeArts Repo code repository ID. Constraints: None. Value range: None. Default value: None.
endpoint_id	No	String	Parameter description: Code source endpoint ID. Constraints: None. Value range: None. Default value: None.
default_branch	No	String	Parameter description: Default branch. Constraints: None. Value range: None. Default value: None.
git_url	No	String	Parameter description: HTTPS address of the Git repository, for example, https://example.com/CloudPipelinezycs00001/2000.git. Constraints: None. Value range: None. Default value: None.

Parameter	Mandatory	Type	Description
ssh_git_url	No	String	Parameter description: ssh_git address, for example, https://example.com/CloudPipelinezycs00001/2000.git. Constraints: None. Value range: None. Default value: None.
web_url	No	String	Parameter description: Web page URL. Constraints: None. Value range: None. Default value: None.
repo_name	No	String	Parameter description: Pipeline source name. Constraints: None. Value range: None. Default value: None.
alias	No	String	Definition: Code repository alias. Constraints: N/A Value range: Enter a maximum of 128 characters. Only letters, digits, and underscores (_) are supported. Default value: N/A

Table 4-122 CustomVariable

Parameter	Mandatory	Type	Description
pipeline_id	No	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
name	No	String	Definition: Custom parameter name. Constraints: N/A Value range: Enter a maximum of 128 characters. Only letters, digits, and underscores (_) are supported. Default value: N/A
sequence	No	Integer	Parameter description: Parameter sequence number, which starts from 1. Constraints: None. Value range: None. Default value: None.

Parameter	Mandatory	Type	Description
type	No	String	Definition: Custom parameter type. Constraints: N/A Value range: • autoIncrement: auto-increment parameter. • enum: enumerated parameter. • string: string parameter. Default value: N/A
value	No	String	Parameter description: Default value of a custom parameter. Constraints: None. Value range: Up to 8192 characters. Default value: None.
is_secret	No	Boolean	Definition: Private parameter or not. Constraints: N/A Value range: • true: The parameter is private. • false: The parameter is not private. Default value: false.

Parameter	Mandatory	Type	Description
description	No	String	Parameter description: Parameter description. Constraints: None. Value range: Up to 1024 characters. Default value: None.
is_runtime	No	Boolean	Definition: Whether a parameter can be set at runtime. Constraints: N/A Value range: • true: The parameter can be set at runtime. • false: The parameter cannot be set at runtime. Default value: false.
limits	No	Array of objects	Parameter description: List of enumerated values. Constraints: None. Value range: Up to 1,024 characters. Default value: None.

Parameter	Mandatory	Type	Description
is_reset	No	Boolean	Definition: Whether to reset. If the auto-increment parameter is edited, the edited value is used. Otherwise, the last digit increases. Constraints: N/A Value range: • true: Use the edited parameter value. • false: Use the auto-increment parameter. Default value: false.
latest_value	No	String	Definition: Value of the parameter in the last run. Constraints: N/A Value range: Max. 8,192 characters. Default value: N/A
runtime_value	No	String	Definition: Input value of a parameter when the pipeline is executed. Constraints: N/A Value range: N/A Default value: N/A

Table 4-123 PipelineSchedule

Parameter	Mandatory	Type	Description
uuid	No	String	Parameter description: ID of a scheduled task. Constraints: None. Value range: None. Default value: None.
type	No	String	Parameter description: Job type. Constraints: None. Value range: Only fixed is supported. Default value: None.
name	No	String	Parameter description: Job name. Constraints: None. Value range: None. Default value: None.
enable	No	String	Parameter description: Whether to enable. Constraints: None. Value range: None. Default value: None.

Parameter	Mandatory	Type	Description
days_of_week	No	Array of integers	Parameter description: Specific execution day in a week. Sunday to Saturday: 1 to 7 . Constraints: N/A. Value Range: N/A. Default value: N/A.
time_zone	No	String	Definition: Time zone. Constraints: N/A Value range: • "China Standard Time". • "GMT Standard Time". • "South Africa Standard Time". • "Russian Standard Time". • "SE Asia Standard Time". • "Singapore Standard Time". • "Pacific SA Standard Time". • "E. South America Standard Time". • "Central Standard Time (Mexico)". • "Egypt Standard Time". • "Saudi Arabia Standard Time". Default value: N/A

Table 4-124 PipelineTrigger

Parameter	Mandatory	Type	Description
pipeline_id	No	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . <code>pipelines.pipelineId</code> indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
git_url	No	String	Definition: Git URL. Constraints: N/A Value range: N/A Default value: N/A
git_type	No	String	Definition: Type of the Git repository. Constraints: N/A Value range: • CodeArts Repo. • Gitee. • GitHub. • GitCode. • GitLab. Default value: N/A

Parameter	Mandatory	Type	Description
is_auto_commit	No	Boolean	Definition: Whether to automatically commit code. This feature is only available for Gitee repositories. After a webhook triggers a pipeline, a comment is automatically added. Constraints: N/A Value range: • true: The code is automatically committed. • false: The code is not automatically committed. Default value: N/A
events	No	Array of CodeEvent objects	Parameter description: Trigger event list. Constraints: None. Value range: None. Default value: None.
hook_id	No	String	Parameter description: Callback ID generated by the system. Constraints: None. Value range: None. Default value: None.

Parameter	Mandatory	Type	Description
repo_id	No	String	Parameter description: Repo repository ID. Constraints: None. Value range: None. Default value: None.
endpoint_id	No	String	Definition: Code source endpoint ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
callback_url	No	String	Parameter description: Callback URL, which is generated when a webhook is registered. Constraints: None. Value range: None. Default value: None.
security_token	No	String	Parameter description: User token, which is generated when a webhook is registered. Constraints: None. Value range: None. Default value: None.

Table 4-125 CodeEvent

Parameter	Mandatory	Type	Description
type	No	String	Definition: Event type. Constraints: N/A Value range: • merge_request: triggered by an MR. • push: triggered by code push. • tag_push: triggered by a tag. • issue: triggered by a Gitee repository issue. • note: triggered by a Gitee repository comment. Default value: N/A
enable	No	Boolean	Definition: Whether the code repository is available. Constraints: N/A Value range: • true: The code repository is available. • false: The code repository is unavailable. Default value: N/A

Table 4-126 PipelineConcurrencyMgmt

Parameter	Mandatory	Type	Description
pipeline_id	No	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: 32 characters. Default value: N/A
concurrency_number	No	Integer	Definition: Number of concurrent pipeline executions. It varies by your package and purchased concurrency.. Constraints: N/A Value range: N/A Default value: N/A
exceed_action	No	String	Definition: Policy when the number of concurrent requests exceeds the upper limit. Constraints: N/A Value range: • ABORT: Ignore the request. • QUEUE: Wait in a queue. Default value: N/A

Parameter	Mandatory	Type	Description
create_time	No	Long	Parameter description: Creation time. Constraints: None. Value range: None. Default value: None.
update_time	No	Long	Parameter description: Update time. Constraints: None. Value range: None. Default value: None.
enable	No	Boolean	Definition: Whether to enable the rule. Constraints: N/A Value range: • true: enabled. • false: disabled. Default value: N/A

Response Parameters

Status code: 200

Table 4-127 Response body parameters

Parameter	Type	Description
pipeline_id	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Value range: The value consists of 32 characters, including only digits and letters.

Example Requests

POST https://{endpoint}/v5/d80a8a6530324b7bac972cbb8a9f28ec/api/pipelines

```
{
  "name" : "New Pipeline-20231024204112",
  "description" : "",
  "is_publish" : false,
  "sources" : [ {
    "type" : "code",
    "params" : {
      "git_type" : "codehub",
      "codehub_id" : "2111699317",
      "endpoint_id" : "",
      "default_branch" : "master",
      "git_url" : "https://example.com/0213yjwt00001/0213yjwt1-android.git",
      "ssh_git_url" : "git@example.com:0213yjwt00001/0213yjwt1-android.git",
      "web_url" : "",
      "repo_name" : "0213yjwt1-android",
      "alias" : ""
    }
  } ],
  "definition" : "{\n  \"stages\": [\n    {\n      \"sequence\": \"0\",\n      \"jobs\": [\n        {\n          \"id\": \"\",\n          \"stage_id\": \"1698151278179\",\n          \"identifier\": \"1698151278179f6548479-2eaf-420a-92a4-92d9a711c51b\",\n          \"name\": \"Create Task in the {\n            \"id\": \"1698151278179\",\n            \"identifier\": \"1698151278179f6548479-2eaf-420a-92a4-92d9a711c51b\",\n            \"name\": \"Phase\",\n            \"depends_on\": [],\n            \"timeout\": \"\",\n            \"timeout_unit\": \"\",\n            \"steps\": [\n              {\n                \"exec_type\": \"AGENTLESS_JOB\",\n                \"sequence\": \"0\",\n                \"rule_templates\": [],\n                \"pre\": [\n                  {\n                    \"task\": \"official_devcloud_autoTrigger\",\n                    \"sequence\": \"0\",\n                    \"post\": [],\n                    \"depends_on\": []\n                  }\n                ]\n              }\n            ]\n          }\n        }\n      ]\n    }\n  ]\n}"
```

Example Responses

Status code: 200

OK

```
{
  "pipeline_id" : "8bfd69eac154a0da341705a36294aca"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

import java.util.List;
import java.util.ArrayList;

public class CreatePipelineNewSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        CreatePipelineNewRequest request = new CreatePipelineNewRequest();
        request.withProjectId("{project_id}");
        PipelineDTO body = new PipelineDTO();
        CodeSourceParams paramsSources = new CodeSourceParams();
        paramsSources.withGitType("codehub")
            .withCodehubId("2111699317")
            .withEndpointId("")
            .withDefaultBranch("master")
            .withGitUrl("https://example.com/0213yjwt00001/0213yjwt1-android.git")
            .withSshGitUrl("git@example.com:0213yjwt00001/0213yjwt1-android.git")
            .withWebUrl("")
            .withRepoName("0213yjwt1-android")
            .withAlias("");
        List<CodeSource> listbodySources = new ArrayList<>();
        listbodySources.add(
            new CodeSource()
                .withType("code")
                .withParams(paramsSources)
        );
        body.withDefinition("{\"stages\": [_1,\"sequence\":\"0\",\"jobs\":\n" +
        "[{ \"id\": \"\", \"stage_id\": 1698151278179, \"identifier\": \"1698151278179f6548479-2eaf-420a-92a4-92d9a711c51b\", \"\n" +
        "name\": \"Create Task in the\n" +
        \"{ \"id\": 1698151278179, \"identifier\": \"169815127817987dd9f1d-7821-46e4-89be-2a95b01b0533\", \"run_always\": f\n" +
        "alse, \"name\": \"Phase\", \"depends_on\": [], \"timeout\": \"\", \"timeout_unit\": \"\", \"steps\":\n" +
        "[, \"exec_type\": \"AGENTLESS_JOB\", \"sequence\": 0}], \"rule_templates\": [], \"pre\":\n" +
        "[{ \"task\": \"official_devcloud_autoTrigger\", \"sequence\": 0}], \"post\": [], \"depends_on\": []}] }");
        body.withSources(listbodySources);
        body.withIsPublish(false);
        body.withDescription("");
        body.withName("New Pipeline-20231024204112");
        request.withBody(body);
        try {
            CreatePipelineNewResponse response = client.createPipelineNew(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
```

```
        e.printStackTrace();
    } catch (RequestTimeoutException e) {
        e.printStackTrace();
    } catch (ServiceResponseException e) {
        e.printStackTrace();
        System.out.println(e.getHttpStatusCode());
        System.out.println(e.getRequestId());
        System.out.println(e.getErrorCode());
        System.out.println(e.getErrorMsg());
    }
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = CreatePipelineNewRequest()
        request.project_id = "{project_id}"
        paramsSources = CodeSourceParams(
            git_type="codehub",
            codehub_id="2111699317",
            endpoint_id="",
            default_branch="master",
            git_url="https://example.com/0213yjwt00001/0213yjwt1-android.git",
            ssh_git_url="git@example.com:0213yjwt00001/0213yjwt1-android.git",
            web_url="",
            repo_name="0213yjwt1-android",
            alias=""
        )
        listSourcesbody = [
            CodeSource(
                type="code",
                params=paramsSources
            )
        ]
        request.body = PipelineDTO(
            definition="{
                'stages': [
                    {
                        'id': '',
                        'stage_id': '1698151278179',
                        'identifier': '1698151278179f6548479-2eaf-420a-92a4-92d9a711c51b',
                        'name': 'Create Task in the',
                        'run_always': false,
                        'phase': 'Phase',
                        'depends_on': [],
                        'timeout': '',
                        'timeout_unit': '',
                        'steps': [
                            {
                                'exec_type': 'AGENTLESS_JOB',
                                'sequence': 0,
                                'rule_templates': [],
                                'pre': [
                                    {
                                        'task': 'official_devcloud_autoTrigger',
                                        'sequence': 0,
                                        'post': [],
                                        'depends_on': []
                                    }
                                ]
                            }
                        ]
                    }
                ]
            }",
            sources=listSourcesbody,
            is_publish=False,

```

```
        description="",
        name="New Pipeline-20231024204112"
    )
    response = client.create_pipeline_new(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.CreatePipelineNewRequest{}
    request.ProjectId = "{project_id}"
    gitTypeParams := "codehub"
    codehubIdParams := "2111699317"
    endpointIdParams := ""
    defaultBranchParams := "master"
    gitUrlParams := "https://example.com/0213yjwt00001/0213yjwt1-android.git"
    sshGitUrlParams := "git@example.com:0213yjwt00001/0213yjwt1-android.git"
    webUrlParams := ""
    repoNameParams := "0213yjwt1-android"
    aliasParams := ""
    paramsSources := &model.CodeSourceParams{
        GitType: &gitTypeParams,
        CodehubId: &codehubIdParams,
        EndpointId: &endpointIdParams,
        DefaultBranch: &defaultBranchParams,
        GitUrl: &gitUrlParams,
        SshGitUrl: &sshGitUrlParams,
        WebUrl: &webUrlParams,
        RepoName: &repoNameParams,
        Alias: &aliasParams,
    }
    typeSources := "code"
    var listSourcesbody = []model.CodeSource{
        {
            Type: &typeSources,
```

```
        Params: paramsSources,
    },
}
descriptionPipelineDto:= ""
request.Body = &model.PipelineDto{
    Definition: "{\"stages\": [1,\"sequence\":\"0\",\"jobs\":
[\"id\":\"\",\"stage_id\":\"1698151278179\",\"identifier\":\"1698151278179f6548479-2eaf-420a-92a4-92d9a711c51b\",
name\": \"Create Task in the
{\"id\":\"1698151278179\",\"identifier\":\"169815127817987dd9f1d-7821-46e4-89be-2a95b01b0533\",\"run_always\":f
alse,\"name\": \"Phase\",\"depends_on\":[] ,\"timeout\":\"\",\"timeout_unit\":\"\",\"steps\":
[],\"exec_type\":\"AGENTLESS_JOB\",\"sequence\":0}],\"rule_templates\":[],\"pre\":
[\"task\":\"official_devcloud_autoTrigger\",\"sequence\":0}],\"post\":[],\"depends_on\":[]]]\",
    Sources: &listSourcesbody,
    IsPublish: false,
    Description: &descriptionPipelineDto,
    Name: \"New Pipeline-20231024204112\",
}
response, err := client.CreatePipelineNew(request)
if err == nil {
    fmt.Printf(\"%+v\\n\", response)
} else {
    fmt.Println(err)
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.2.12 Retrying a Pipeline

Function

This API is used to retry a pipeline.

Calling Method

For details, see [Calling APIs](#).

URI

PUT /v5/{project_id}/api/pipelines/{pipeline_id}/pipeline-runs/{pipeline_run_id}/
retry

Table 4-128 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Parameter	Mandatory	Type	Description
pipeline_run_id	Yes	String	Definition: Pipeline run ID. The return value of the API for starting a pipeline is the pipeline run ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-129 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-130 Response body parameters

Parameter	Type	Description
success	Boolean	Definition: Whether the operation is successful. Value range: • true: The operation is successful. • false: The operation fails.

Example Requests

```
PUT https://{endpoint}/v5/d80a8a6530324b7bac972cbb8a9f28ec/api/pipelines/  
8bfbd69eac154a0da341705a36294aca/pipeline-runs/94511c7207474053ab5f6e2dd5624cd5/retry
```

Example Responses

Status code: 200

OK

```
{  
  "success" : true  
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;  
  
import com.huaweicloud.sdk.core.auth.ICredential;  
import com.huaweicloud.sdk.core.auth.BasicCredentials;  
import com.huaweicloud.sdk.core.exception.ConnectionException;  
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;  
import com.huaweicloud.sdk.core.exception.ServiceResponseException;  
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;  
import com.huaweicloud.sdk.codeartspipeline.v2.*;  
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;  
  
public class RetryPipelineRunSolution {  
    public static void main(String[] args) {  
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great  
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or  
        // environment variables and decrypted during use to ensure security.  
        // In this example, AK and SK are stored in environment variables for authentication. Before running  
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
        String ak = System.getenv("CLOUD_SDK_AK");  
        String sk = System.getenv("CLOUD_SDK_SK");  
  
        ICredential auth = new BasicCredentials()  
            .withAk(ak)  
            .withSk(sk);  
  
        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()  
            .withCredential(auth)
```



```
        .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
        .build();
RetryPipelineRunRequest request = new RetryPipelineRunRequest();
request.withProjectId("{project_id}");
request.withPipelineId("{pipeline_id}");
request.withPipelineRunId("{pipeline_run_id}");
try {
    RetryPipelineRunResponse response = client.retryPipelineRun(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = RetryPipelineRunRequest()
        request.project_id = "{project_id}"
        request.pipeline_id = "{pipeline_id}"
        request.pipeline_run_id = "{pipeline_run_id}"
        response = client.retry_pipeline_run(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
```

```
codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
"github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.RetryPipelineRunRequest{}
    request.ProjectId = "{project_id}"
    request.PipelineId = "{pipeline_id}"
    request.PipelineRunId = "{pipeline_run_id}"
    response, err := client.RetryPipelineRun(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.2.13 Passing Manual Review

Function

This API is used to pass a manual review.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v5/{project_id}/api/pipelines/{pipeline_id}/pipeline-runs/{pipeline_run_id}/jobs/{job_run_id}/steps/{step_run_id}/pass

Table 4-131 Path Parameters

Parameter	Mandatory	Type	Description
job_run_id	Yes	String	Definition: Pipeline job ID. You can find all manual review tasks from the stages field in the response body after calling the API for obtaining pipeline execution details . JobRun.id indicates the job ID. Constraints: N/A Value range: N/A Default value: N/A
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Parameter	Mandatory	Type	Description
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipeline_run_id	Yes	String	Definition: Pipeline run ID. The return value of the API for starting a pipeline is the pipeline run ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Parameter	Mandatory	Type	Description
step_run_id	Yes	String	Definition: Pipeline step ID. You can find all manual review tasks in the stages field in the response body of the ShowPipelineRunDetail API. StepRun.id indicates the step ID. Constraints: N/A Value range: The value can contain only digits and letters. There is no length limit. Generally, the value contains 32 characters. Default value: N/A

Request Parameters

Table 4-132 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-133 Response body parameters

Parameter	Type	Description
success	Boolean	Definition: Whether the operation is successful. Value range: • true: The operation is successful. • false: The operation fails.

Example Requests

```
POST https://{endpoint}/v5/d80a8a6530324b7bac972cbb8a9f28ec/api/pipelines/8bfb69eac154a0da341705a36294aca/pipeline-runs/94511c7207474053ab5f6e2dd5624cd5/jobs/d2ce3825a5e147dd98793ef6e76d038e/steps/f2f0441226444c1199ca0cce8d24074f/pass
```

Example Responses

Status code: 200

OK

```
{
  "success" : true
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class AcceptManualReviewSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
```

```
        .withCredential(auth)
        .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
        .build();
AcceptManualReviewRequest request = new AcceptManualReviewRequest();
request.withJobRunId("{job_run_id}");
request.withStepRunId("{step_run_id}");
request.withProjectId("{project_id}");
request.withPipelineId("{pipeline_id}");
request.withPipelineRunId("{pipeline_run_id}");
try {
    AcceptManualReviewResponse response = client.acceptManualReview(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.valueOf("<YOUR REGION>")) \
        .build()

    try:
        request = AcceptManualReviewRequest()
        request.job_run_id = "{job_run_id}"
        request.step_run_id = "{step_run_id}"
        request.project_id = "{project_id}"
        request.pipeline_id = "{pipeline_id}"
        request.pipeline_run_id = "{pipeline_run_id}"
        response = client.accept_manual_review(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.AcceptManualReviewRequest{}
    request.JobRunId = "{job_run_id}"
    request.StepRunId = "{step_run_id}"
    request.ProjectId = "{project_id}"
    request.PipelineId = "{pipeline_id}"
    request.PipelineRunId = "{pipeline_run_id}"
    response, err := client.AcceptManualReview(request)
    if err == nil {
        fmt.Printf("%v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.2.14 Obtaining Custom Parameters Required for Pipeline Running

Function

This API is used to obtain custom parameters required for pipeline running.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v5/{project_id}/api/pipelines/{pipeline_id}/list-runtime-vars

Table 4-134 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Parameter	Mandatory	Type	Description
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Table 4-135 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Offset.
limit	No	Integer	Number of records of each query.

Request Parameters

Table 4-136 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
X-Language	No	String	Definition: Language type. Constraints: N/A Value range: • zh-cn: Chinese. • en-us: English. Default value: en-us .

Response Parameters

Status code: 200

Table 4-137 Response body parameters

Parameter	Type	Description
offset	Integer	Definition: Offset where the query starts. Constraints: N/A Value range: The offset value must be no less than 0. Default value: 0.
limit	Integer	Definition: Number of records of each query. Constraints: N/A Value range: The value is no less than 0. Default value: N/A
total	Integer	Total number of records.
variables	Array of PipelineVariable objects	Customized pipeline parameters

Table 4-138 PipelineVariable

Parameter	Type	Description
name	String	Definition: Custom parameter name. Value range: Enter a maximum of 128 characters. Only letters, digits, and underscores (_) are supported.
sequence	Integer	Parameter description: Sequence number. Value range: 1-2147483647
type	String	Parameter description: Custom parameter type. Value range: N/A
value	String	Definition: Default value of the custom parameter. Value range: N/A
is_secret	Boolean	Definition: Private parameter or not. Value range: • true: The parameter is private. • false: The parameter is not private.
description	String	Parameter description: Custom parameter description. Value range: N/A
is_runtime	Boolean	Definition: Whether a parameter can be set at runtime. Value range: • true: The parameter can be set at runtime. • false: The parameter cannot be set at runtime.

Parameter	Type	Description
limits	Array of strings	Parameter description: List of limited enumerated values. Value range: N/A
is_reset	Boolean	Definition: Whether an auto-increment parameter is reset. Value range: • true: The parameter is reset. • false: The parameter is not reset.
latest_value	String	Parameter description: The latest value of an auto-increment parameter. Value range: N/A

Example Requests

```
GET https://{endpoint}/v5/6428c2e2b4b64affa14ec80896695c49/api/pipelines/  
633839ac12a2465ba86dfc5cd212ee1a/list-runtime-vars
```

Example Responses

Status code: 200

OK

```
{  
  "offset" : 1,  
  "limit" : 10,  
  "total" : 0,  
  "variables" : [ {  
    "name" : "name",  
    "sequence" : 1,  
    "type" : "string",  
    "is_strict" : false,  
    "value" : "zs",  
    "is_secret" : false,  
    "description" : "",  
    "is_runtime" : false,  
    "limits" : [ ],  
    "is_reset" : false,  
    "latest_value" : ""  
  }, {  
    "name" : "age",  
    "sequence" : 2,  
    "type" : "string",  
    "is_strict" : false,  
    "value" : "18",  
    "is_secret" : false,  
    "description" : "",  
    "is_runtime" : false,  
  }  
]
```

```
"limits" : [ ],  
"is_reset" : false,  
"latest_value" : ""  
}]  
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.2.15 Rejecting Manual Review

Function

This API is used to reject a manual review.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v5/{project_id}/api/pipelines/{pipeline_id}/pipeline-runs/{pipeline_run_id}/
jobs/{job_run_id}/steps/{step_run_id}/refuse

Table 4-139 Path Parameters

Parameter	Mandatory	Type	Description
job_run_id	Yes	String	Definition: Job run ID. Obtain the ID by calling the API for obtaining the pipeline execution details . <code>JobRun.id</code> indicates job run ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
step_run_id	Yes	String	Definition: Pipeline step ID. Obtain the ID by calling the API for querying pipeline details . <code>stages.jobs.steps</code> indicates the step ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Parameter	Mandatory	Type	Description
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipeline_run_id	Yes	String	Definition: Pipeline run ID. The return value of the API for starting a pipeline is the pipeline run ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-140 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-141 Response body parameters

Parameter	Type	Description
success	Boolean	Definition: Whether the operation is successful. Value range: • true: The operation is successful. • false: The operation fails.

Example Requests

```
POST https://v5/d80a8a6530324b7bac972cbb8a9f28ec/api/pipelines/8bfbd69eac154a0da341705a36294aca/pipeline-runs/12abeb9da0964cf3bd3ffd6813153e12/jobs/97b4991cf3374d8d96e08b38f79c8827/steps/6ff8e898026447a9a3eaa592e94b9384/refuse
```

Example Responses

Status code: 200

OK

```
{
  "success" : true
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class RejectManualReviewSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        RejectManualReviewRequest request = new RejectManualReviewRequest();
        request.withJobRunId("{job_run_id}");
        request.withStepRunId("{step_run_id}");
        request.withProjectId("{project_id}");
        request.withPipelineId("{pipeline_id}");
        request.withPipelineRunId("{pipeline_run_id}");
        try {
            RejectManualReviewResponse response = client.rejectManualReview(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
```

```
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = RejectManualReviewRequest()
        request.job_run_id = "{job_run_id}"
        request.step_run_id = "{step_run_id}"
        request.project_id = "{project_id}"
        request.pipeline_id = "{pipeline_id}"
        request.pipeline_run_id = "{pipeline_run_id}"
        response = client.reject_manual_review(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.RejectManualReviewRequest{}
    request.JobRunId = "{job_run_id}"
    request.StepRunId = "{step_run_id}"
    request.ProjectId = "{project_id}"
```

```
request.PipelineId = "{pipeline_id}"
request.PipelineRunId = "{pipeline_run_id}"
response, err := client.RejectManualReview(request)
if err == nil {
    fmt.Printf("%v\n", response)
} else {
    fmt.Println(err)
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.2.16 Querying Pipeline Logs

Function

This API is used to query pipeline logs.

Calling Method

For details, see [Calling APIs](#).

URI

```
POST /v5/{project_id}/api/pipelines/{pipeline_id}/pipeline-runs/{pipeline_run_id}/
jobs/{job_run_id}/steps/{step_run_id}/logs
```

Table 4-142 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipeline_run_id	Yes	String	Definition: Pipeline run ID. The return value of the API for starting a pipeline is the pipeline run ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Parameter	Mandatory	Type	Description
job_run_id	Yes	String	Parameter description: Pipeline job ID. Constraints: None. Value range: 32 characters, including only digits and letters. Default value: None.
step_run_id	Yes	String	Parameter description: Pipeline step ID. Constraints: None. Value range: 32 characters, including only digits and letters. Default value: None.

Request Parameters

Table 4-143 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Table 4-144 Request body parameters

Parameter	Mandatory	Type	Description
start_offset	No	Long	Parameter description: Log start offset. Constraints: None. Value range: None. Default value: None.
end_offset	No	Long	Parameter description: Log end offset. Constraints: None. Value range: None. Default value: None.
limit	Yes	Long	Parameter description: Maximum number of log lines. Constraints: None. Value range: None. Default value: None.
sort	Yes	String	Definition: Sorting rule. Constraints: N/A Value range: • asc: by sorting field in ascending order. • desc: by sorting field in descending order. Default value: N/A

Response Parameters

Status code: 200

Table 4-145 Response body parameters

Parameter	Type	Description
has_more	Boolean	Definition: Whether there are more logs. Value range: • true: There are more logs. • false: There are no more logs.
end_offset	String	Parameter description: End offset of the log query. Enter the end_offset field in the request body to query logs on the next page. Value range: None.
start_offset	String	Parameter description: Start offset of the queried logs. Enter the start_offset field in the request body to query logs on the next page. Value range: None.
log	String	Parameter description: Log content. Value range: None.
step_run_id	String	Parameter description: ID of the step to which it belongs. Value range: None.

Example Requests

```
POST https://{endpoint}/v5/d80a8a6530324b7bac972cbb8a9f28ec/pipelines/
e2bcb5d561fbc4fd89577fb27c80b09a6/pipeline-runs/9e91b1fd7ce743b7a1b7a2458bcf76c7/jobs/
6ce8600f396c4d5ba5290201ba9fd762/steps/7a1a7bb1b5e74d1c944d8b8971621033/logs

{
  "start_offset" : 0,
  "end_offset" : 0,
  "limit" : 500,
  "sort" : "asc"
}
```


Example Responses

Status code: 200

Response body for querying logs.

```
{
  "has_more" : false,
  "end_offset" : "25705",
  "start_offset" : "6132",
  "log" : "[2023/11/24 21:49:32.198 GMT+08:00] [INFO] [real_stage: Shell]: This step starts.\n[2023/11/24 21:49:32.201 GMT+08:00] [INFO] [real_stage: Shell]: ===== start to do VmExecutionStep =====\n[2023/11/24 21:49:32.207 GMT+08:00] [INFO] [real_stage: Shell]: [frame] start to send status data to service.\n[2023/11/24 21:49:32.225 GMT+08:00] [INFO] [real_stage: Shell]: [frame] finish to save status data to service.\n[2023/11/24 21:49:32.777 GMT+08:00] [INFO] [real_stage: Shell]: slave arch: amd64\n[2023/11/24 21:49:33.330 GMT+08:00] [INFO] [real_stage: Shell]: download file result: SUCCESS\n[2023/11/24 21:49:36.547 GMT+08:00] [2023-11-24 21:49:36] [INFO] ===== flow agent launched in [octopus_container] =====\n[2023/11/24 21:49:36.548 GMT+08:00] [2023-11-24 21:49:36] [INFO] ===== use env job loader =====\n[2023/11/24 21:49:36.548 GMT+08:00] [2023-11-24 21:49:36] [INFO] start to do status callback\n[2023/11/24 21:49:36.548 GMT+08:00] [2023-11-24 21:49:36] [INFO] successfully callback to flow service\n[2023/11/24 21:49:36.548 GMT+08:00] [2023-11-24 21:49:36] [INFO] step begin: [1/1]- [Execute Shell]\n[2023/11/24 21:49:36.548 GMT+08:00] [2023-11-24 21:49:36] [INFO] start to use official executor [official_shell_plugin]\n[2023/11/24 21:49:36.548 GMT+08:00] [2023-11-24 21:49:36] [INFO] #####@@@ [step start] @@@#####\n[2023/11/24 21:49:36.548 GMT+08:00] [2023-11-24 21:49:36] [INFO] ===== start to use script executor =====\n[2023/11/24 21:49:36.548 GMT+08:00] [2023-11-24 21:49:36] [INFO] ===== start to execute shell pre function [make temp dir] =====\n[2023/11/24 21:49:36.548 GMT+08:00] [2023-11-24 21:49:36] [INFO] ===== shell pre function [make temp dir] current temp dir:[/data/workspace/6ce8600f396c4d5ba5290201ba9fd762/7a1a7bb1b5e74d1c944d8b8971621033] =====\n[2023/11/24 21:49:36.548 GMT+08:00] [2023-11-24 21:49:36] [INFO] ===== end to execute shell pre function [make temp dir] successfully =====\n[2023/11/24 21:49:36.548 GMT+08:00] [2023-11-24 21:49:36] [INFO] ===== start to execute custom shell =====\n[2023/11/24 21:49:36.548 GMT+08:00] [2023-11-24 21:49:36] [INFO] 1\n[2023/11/24 21:49:36.548 GMT+08:00] [2023-11-24 21:49:36] [INFO] ===== finish to use script executor with status success =====\n[2023/11/24 21:49:36.548 GMT+08:00] [2023-11-24 21:49:36] [INFO] #####@@@ [step end] @@@#####\n[2023/11/24 21:49:36.548 GMT+08:00] [2023-11-24 21:49:36] [INFO] finish to use official executor\n[2023/11/24 21:49:36.548 GMT+08:00] [2023-11-24 21:49:36] [INFO] step executes Shell succeed.\n[2023/11/24 21:49:36.548 GMT+08:00] [2023-11-24 21:49:36] [INFO] start to do data callback with context:[{1eaa92ecea2a42cab78e5269963a48c16ce8600f396c4d5ba5290201ba9fd762 7a1a7bb1b5e74d1c944d8b8971621033 0}]\n[2023/11/24 21:49:36.548 GMT+08:00] [2023-11-24 21:49:36] [INFO] successfully callback to flow service\n[2023/11/24 21:49:36.548 GMT+08:00] [2023-11-24 21:49:36] [INFO] current step, duration time: [0.030766842]\n[2023/11/24 21:49:36.548 GMT+08:00] [2023-11-24 21:49:36] [INFO] start to do status callback\n[2023/11/24 21:49:36.548 GMT+08:00] [2023-11-24 21:49:36] [INFO] successfully callback to flow service\n[2023/11/24 21:49:36.548 GMT+08:00] [2023-11-24 21:49:36] [INFO] ===== flow agent end =====\n[2023/11/24 21:49:36.563 GMT+08:00] [INFO] [real_stage: Shell]: [frame] start to send status data to service.\n[2023/11/24 21:49:36.563 GMT+08:00] [INFO] [real_stage: Shell]: This step is complete.",
  "step_run_id" : "7a1a7bb1b5e74d1c944d8b8971621033"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
```

```
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class ShowPipelineLogSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR_REGION>"))
            .build();
        ShowPipelineLogRequest request = new ShowPipelineLogRequest();
        request.withJobRunId("{job_run_id}");
        request.withStepRunId("{step_run_id}");
        request.withProjectId("{project_id}");
        request.withPipelineId("{pipeline_id}");
        request.withPipelineRunId("{pipeline_run_id}");
        LogQuery body = new LogQuery();
        body.withSort("asc");
        body.withLimit(500L);
        body.withEndOffset(0L);
        body.withStartOffset(0L);
        request.withBody(body);
        try {
            ShowPipelineLogResponse response = client.showPipelineLog(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.getenv("CLOUD_SDK_AK")
    sk = os.getenv("CLOUD_SDK_SK")
```

```
credentials = BasicCredentials(ak, sk)

client = CodeArtsPipelineClient.new_builder() \
    .with_credentials(credentials) \
    .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
    .build()

try:
    request = ShowPipelineLogRequest()
    request.job_run_id = "{job_run_id}"
    request.step_run_id = "{step_run_id}"
    request.project_id = "{project_id}"
    request.pipeline_id = "{pipeline_id}"
    request.pipeline_run_id = "{pipeline_run_id}"
    request.body = LogQuery(
        sort="asc",
        limit=500,
        end_offset=0,
        start_offset=0
    )
    response = client.show_pipeline_log(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowPipelineLogRequest{}
    request.JobRunId = "{job_run_id}"
    request.StepRunId = "{step_run_id}"
    request.ProjectId = "{project_id}"
    request.PipelineId = "{pipeline_id}"
    request.PipelineRunId = "{pipeline_run_id}"
    endOffsetLogQuery := int64(0)
    startOffsetLogQuery := int64(0)
```

```
request.Body = &model.LogQuery{
    Sort: "asc",
    Limit: int64(500),
    EndOffset: &endOffsetLogQuery,
    StartOffset: &startOffsetLogQuery,
}
response, err := client.ShowPipelineLog(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Response body for querying logs.

Error Codes

See [Error Codes](#).

4.2.17 Obtaining the Pipeline Step Execution Output

Function

Obtaining the Pipeline Step Execution Output

Calling Method

For details, see [Calling APIs](#).

URI

GET /v5/{project_id}/api/pipelines/{pipeline_id}/pipeline-runs/{pipeline_run_id}/steps/outputs

Table 4-146 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipeline_run_id	Yes	String	Definition: Pipeline run ID. The return value of the API for starting a pipeline is the pipeline run ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Table 4-147 Query Parameters

Parameter	Mandatory	Type	Description
step_run_ids	Yes	String	Parameter description: Pipeline step ID. Constraints: N/A Value range: Each ID is a string of 32 characters, consisting of only digits and letters. Default value: N/A

Request Parameters

Table 4-148 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-149 Response body parameters

Parameter	Type	Description
step_outputs	Array of step_outputs objects	Parameter description: Step output list, which records the output ID and result information of each step. Constraints: N/A
current_system_time	Long	Parameter description: Current system time. Value range: N/A

Table 4-150 step_outputs

Parameter	Type	Description
step_run_id	String	Definition: Step ID. Value range: The value consists of 32 characters, including digits and letters.
output_result	Array of output_result objects	Parameter description: Step output. Value range: None.

Table 4-151 output_result

Parameter	Type	Description
key	String	Parameter description: Step output key value. Value range: None.
value	String	Parameter description: Step output value. Value range: None.

Status code: 400**Table 4-152** Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

```
GET https://{endpoint}/v5/26726a24b3f247b4b49300b6f84fee61/pipelines/5f58d4f7b0a9450a889c3ccb58813f1c/pipeline-runs/9018898842af45b3a0546f9caa44e4d5/steps/outputs?step_run_ids=eafeade4aade49b2bc1cac8405c2f44c
```

Example Responses**Status code: 200**

OK

```
{
  "step_outputs": [ {
    "step_run_id": "eafeade4aade49b2bc1cac8405c2f44c",
    "output_result": [ {
      "key": "new_issue_count",
      "value": "0"
    }, {
      "key": "codecheck.deadly",
      "value": "0"
    }, {
      "key": "codecheck.important",
      "value": "0"
    }, {
      "key": "codecheck.common",
      "value": "0"
    }, {
      "key": "codecheck.prompt",
      "value": "0"
    }
  ]
}, {
  "current_system_time": 1710153194163
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;
```



```
import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class ShowStepOutputsSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowStepOutputsRequest request = new ShowStepOutputsRequest();
        request.withProjectId("{project_id}");
        request.withPipelineId("{pipeline_id}");
        request.withPipelineRunId("{pipeline_run_id}");
        try {
            ShowStepOutputsResponse response = client.showStepOutputs(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.getenv("CLOUD_SDK_AK")
    sk = os.getenv("CLOUD_SDK_SK")
```

```
credentials = BasicCredentials(ak, sk)

client = CodeArtsPipelineClient.new_builder() \
    .with_credentials(credentials) \
    .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
    .build()

try:
    request = ShowStepOutputsRequest()
    request.project_id = "{project_id}"
    request.pipeline_id = "{pipeline_id}"
    request.pipeline_run_id = "{pipeline_run_id}"
    response = client.show_step_outputs(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowStepOutputsRequest{}
    request.ProjectId = "{project_id}"
    request.PipelineId = "{pipeline_id}"
    request.PipelineRunId = "{pipeline_run_id}"
    response, err := client.ShowStepOutputs(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.2.18 Querying Build Products on a Pipeline

Function

Querying Build Products on a Pipeline

Calling Method

For details, see [Calling APIs](#).

URI

GET /v5/{project_id}/api/pipelines/{pipeline_id}/pipeline-runs/{pipeline_run_id}/artifacts

Table 4-153 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Parameter	Mandatory	Type	Description
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipeline_run_id	Yes	String	Definition: Pipeline run ID. The return value of the API for starting a pipeline is the pipeline run ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-154 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200**Table 4-155** Response body parameters

Parameter	Type	Description
artifacts	Array of Artifact objects	Definition: Artifact list of a pipeline. Constraints: N/A Value range: N/A Default value: N/A

Table 4-156 Artifact

Parameter	Type	Description
project_id	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
name	String	Definition: Artifact name. Constraints: N/A Value range: N/A Default value: N/A
artifact_version	String	Definition: Artifact version. Constraints: N/A Value range: N/A Default value: N/A
upload_target	String	Definition: Platform where the artifact is stored. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Type	Description
artifact_package_type	String	Definition: Artifact package type, for example, JAR. Constraints: N/A Value range: N/A Default value: N/A
artifact_uri	String	Definition: Path for storing files in the artifact repository. Constraints: N/A Value range: N/A Default value: N/A
artifact_download_url_with_id	String	Definition: Artifact repository download address. Constraints: N/A Value range: N/A Default value: N/A
artifact_type	String	Definition: Artifact type. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Type	Description
hash_code	Array of hash_code objects	Definition: Hash code of the artifact. Constraints: N/A Value range: N/A Default value: N/A
job_id	String	Definition: Build task ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
build_no	Integer	Definition: Build task No. Constraints: N/A Value range: N/A Default value: N/A
daily_build_number	String	Definition: Build task sequence number. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Type	Description
file_size	String	Definition: Artifact size. Constraints: N/A Value range: N/A Default value: N/A

Table 4-157 hash_code

Parameter	Type	Description
hash_type	String	Definition: Hash algorithm. Constraints: N/A Value range: N/A Default value: N/A
hash_value	String	Definition: Hash value. Constraints: N/A Value range: N/A Default value: N/A

Example Requests

```
GET https://{endpoint}/v5/26726a24b3f247b4b49300b6f84fee61/api/pipelines/  
5f58d4f7b0a9450a889c3ccb58813f1c/pipeline-runs/9018898842af45b3a0546f9caa44e4d5/artifacts
```

Example Responses

Status code: 200

OK

```
{  
  "artifacts" : [ {
```

```
"project_id" : "26726a24b3f247b4b49300b6f84fee61",
"job_id" : "545da7fc36a7492a841e1018a21d2f22",
"build_no" : "1",
"name" : "javaMavenDemo-1.0.jar",
"file_size" : "2.18KB",
"hash_code" : [ {
  "hash_type" : "SHA256",
  "hash_value" : "0fce55424a0514443f0bd612dcb25abb8de9f06572a2050ba8c6483352d5c5bd"
} ],
"daily_build_number" : "20240311.1",
"upload_target" : "artifact",
"artifact_version" : "20240311.1",
"artifact_package_type" : "jar",
"artifact_uri" : "/Build-TestBuildCheck-749/20240311.1/",
"artifact_download_url_with_id" : "https://example.com/DevRepoServer/v1/files/download?file_id=d7c3c7b5f511483b8485cc58fc32f2ea&type=archive",
"artifact_type" : "package"
} ]
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class ShowPipelineArtifactsSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowPipelineArtifactsRequest request = new ShowPipelineArtifactsRequest();
        request.withProjectId("{project_id}");
        request.withPipelineId("{pipeline_id}");
        request.withPipelineRunId("{pipeline_run_id}");
        try {
            ShowPipelineArtifactsResponse response = client.showPipelineArtifacts(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        }
    }
}
```

```
    } catch (ServiceResponseException e) {
        e.printStackTrace();
        System.out.println(e.getHttpStatusCode());
        System.out.println(e.getRequestId());
        System.out.println(e.getErrorCode());
        System.out.println(e.getErrorMsg());
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowPipelineArtifactsRequest()
        request.project_id = "{project_id}"
        request.pipeline_id = "{pipeline_id}"
        request.pipeline_run_id = "{pipeline_run_id}"
        response = client.show_pipeline_artifacts(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")
```

```
auth := basic.NewCredentialsBuilder().
    WithAk(ak).
    WithSk(sk).
    Build()

client := codeartspipeline.NewCodeArtsPipelineClient(
    codeartspipeline.CodeArtsPipelineClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.ShowPipelineArtifactsRequest{
    request.ProjectId = "{project_id}"
    request.PipelineId = "{pipeline_id}"
    request.PipelineRunId = "{pipeline_run_id}"
    response, err := client.ShowPipelineArtifacts(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.2.19 Deleting Pipelines in Batches

Function

This API is used to delete pipelines in batches.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v5/{project_id}/api/pipelines/batch-delete

Table 4-158 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-159 Request body parameters

Parameter	Mandatory	Type	Description
pipeline_ids	Yes	Array of strings	Definition: Pipeline ID list. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Response Parameters

Status code: 200

Table 4-160 Response body parameters

Parameter	Type	Description
result	Array of result objects	Definition: Response body for deleting pipelines in batches. Value range: N/A

Table 4-161 result

Parameter	Type	Description
pipeline_id	String	Definition: Pipeline ID. Value range: The value consists of 32 characters, including only digits and letters.
pipeline_name	String	Definition: Pipeline name. Value range: Enter 1 to 128 characters, including only letters, digits, hyphens (-), and underscores (_).
status	String	Definition: Deletion status. DELETE_FAILED : The deletion is successful; DELETE_SUCCESS : The deletion fails. Value range: DELETE_FAILED, DELETE_SUCCESS.
reason	String	Definition: Cause of the deletion failure. Value range: N/A

Example Requests

```
POST https://{endpoint}}/v5/db8d07265e24426598b3eb03a7818972/api/pipelines/batch-delete
{
  "pipeline_ids" : [ "d02cd56c8bfa406d96286454c87bd85a", "32d334890ff74d16b3f51df386f16407" ]
}
```

Example Responses

Status code: 200

OK

```
{
  "result" : [ {
    "pipeline_id" : "d02cd56c8bfa406d96286454c87bd85a",
    "pipeline_name" : "Delete 2",
    "status" : "DELETE_SUCCESS",
    "reason" : null
  }, {
    "pipeline_id" : "32d334890ff74d16b3f51df386f16407",
    "pipeline_name" : "Delete 111",
    "status" : "DELETE_SUCCESS",
    "reason" : null
  } ]
}
```

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.2.20 Disabling a Pipeline

Function

This API is used to disable a pipeline.

Calling Method

For details, see [Calling APIs](#).

URI

PUT /v5/{project_id}/api/pipelines/{pipeline_id}/ban

Table 4-162 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-163 Response body parameters

Parameter	Type	Description
-	Boolean	Definition: Whether the disabling is successful. Value range: - true: The disabling is successful. - false: The disabling fails.

Status code: 400**Table 4-164** Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

```
PUT https://{endpoint}}/v5/db8d07265e24426598b3eb03a7818972/api/pipelines/  
a9278e7a9f394dadb07ab2529df7c201/ban
```

Example Responses

Status code: 200

Response body for disabling pipelines.

```
true
```

Status Codes

Status Code	Description
200	Response body for disabling pipelines.
400	Bad request
401	Unauthorized

Status Code	Description
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.2.21 Setting Pipeline Tags in Batches

Function

This API is used to set pipeline tags in batches.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v5/{project_id}/api/pipeline-tag/set-tags

Table 4-165 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-166 Request body parameters

Parameter	Mandatory	Type	Description
pipelineList	Yes	Array of strings	Pipeline ID list.
tagList	Yes	Array of strings	List of tag IDs.

Response Parameters

Status code: 200**Table 4-167** Response body parameters

Parameter	Type	Description
success	Boolean	Definition: Whether the operation is successful. Value range: true: The operation is successful. false: The operation fails.

Example Requests

```
POST https://{endpoint}}/v5/db8d07265e24426598b3eb03a7818972/api/pipeline-tag/set-tags
{
  "pipelineList": [ "d7013d2402ff4cc88489ee5af324e049", "e94ac0c9c3a2429e97534cb2416b28ec",
"2c6a457c3f804e8faae7c6f2d125e1fd" ],
  "tagList": [ "707b6711d3484578a1d848d889a7fa60" ]
}
```

Example Responses

Status code: 200

Response body.

```
{
  "success": true
}
```

Status Codes

Status Code	Description
200	Response body.

Error Codes

See [Error Codes](#).

4.2.22 Enabling a Pipeline

Function

This API is used to enable a pipeline.

Calling Method

For details, see [Calling APIs](#).

URI

PUT /v5/{project_id}/api/pipelines/{pipeline_id}/unban

Table 4-168 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Parameter	Mandatory	Type	Description
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-169 Response body parameters

Parameter	Type	Description
-	Boolean	Definition: Whether the pipeline is successfully enabled. Constraints: N/A Value range: • true: The pipeline is enabled successfully. • false: The pipeline fails to be enabled. Default value: N/A

Status code: 400

Table 4-170 Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

```
PUT https://{endpoint}/v5/gdbdf969b32694524a949b5ef6b3e124a/api/pipelines/  
recf2018de4f4f7389f5bd470c58ce31/unban
```

Example Responses

Status code: 200

Response body.

```
true
```

Status Codes

Status Code	Description
200	Response body.
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.2.23 Executing Pipelines in Batches

Function

This API is used to execute pipelines in batches.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v5/{project_id}/api/pipelines/batch-runs

Table 4-171 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-172 Request body parameters

Parameter	Mandatory	Type	Description
pipeline_ids	Yes	Array of strings	Definition: Pipeline ID list. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Response Parameters

Status code: 200

Table 4-173 Response body parameters

Parameter	Type	Description
result	Array of result objects	Definition: Response body for running pipelines in batches. Value range: N/A

Table 4-174 result

Parameter	Type	Description
pipeline_id	String	Definition: Pipeline ID. Value range: The value consists of 32 characters, including digits and letters.
pipeline_run_id	String	Definition: Pipeline run ID. Value range: The value consists of 32 characters, including digits and letters.

Example Requests

```
POST https://{endpoint}/v5/e2e18230a85d4d6ab0b56cb6d2246c18/api/pipelines/batch-runs
{
  "pipeline_ids" : [ "85f622d9d0ad4852a9451dbc9fe3156a", "0747d5a7099e45f69dc1d099945909a9" ]
}
```

Example Responses

Status code: 200

Response body.

```
{
  "result" : [ {
    "pipeline_id" : "85f622d9d0ad4852a9451dbc9fe3156a",
    "pipeline_run_id" : "e1a1c7e76c7040159650fb18a0c6c763"
  }, {
    "pipeline_id" : "0747d5a7099e45f69dc1d099945909a9",
    "pipeline_run_id" : "a50a604cbd4242888d00bef7ec7b1a8e"
  }
]
```



```
  }]  
}
```

Status Codes

Status Code	Description
200	Response body.

Error Codes

See [Error Codes](#).

4.2.24 Querying Pipeline Job Logs

Function

This API is used to query pipeline job logs.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v5/{project_id}/api/pipelines/{pipeline_id}/pipeline-runs/{pipelineRunId}/jobs/{jobRunId}/steps/{stepRunId}/exec-log

Table 4-175 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Parameter	Mandatory	Type	Description
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipelineRunId	Yes	String	Definition: Pipeline run ID. The return value of the API for starting a pipeline is the pipeline run ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
jobRunId	Yes	String	Definition: Pipeline job ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Parameter	Mandatory	Type	Description
stepRunId	Yes	String	Definition: Pipeline step ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-176 Request body parameters

Parameter	Mandatory	Type	Description
start_offset	No	Long	Parameter description: Log start offset. Constraints: None. Value range: None. Default value: None.
end_offset	No	Long	Parameter description: Log end offset. Constraints: None. Value range: None. Default value: None.

Parameter	Mandatory	Type	Description
limit	Yes	Long	Parameter description: Maximum number of log lines. Constraints: None. Value range: None. Default value: None.
sort	Yes	String	Definition: Sorting rule. Constraints: N/A Value range: • asc: by sorting field in ascending order. • desc: by sorting field in descending order. Default value: N/A
offset	Yes	Long	Definition: Offset. Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-177 Response body parameters

Parameter	Type	Description
has_more	Boolean	Definition: Whether there are more logs. Value range: • true: There are more logs. • false: There are no more logs.
end_offset	String	Parameter description: End offset of the log query. Enter the end_offset field in the request body to query logs on the next page. Value range: None.
start_offset	String	Parameter description: Start offset of the queried logs. Enter the start_offset field in the request body to query logs on the next page. Value range: None.
log	String	Parameter description: Log content. Value range: None.
step_run_id	String	Parameter description: ID of the step to which it belongs. Value range: None.

Example Requests

```
POST https://{endpoint}/v5/e2e18230a85d4d6ab0b56cb6d2246c18/api/pipelines/  
dc73b5ed58a64ab7a469b9480e5f6632/pipeline-runs/80e0fbc621014b2d85d960e0a3a935ef/jobs/  
806b3a5f0d504030af0bcf9a81347d9c/steps/ab9ac44f82004f8b9ab5d5a492122581/exec-log  
  
{  
  "start_offset" : 0,  
  "end_offset" : 0,  
  "offset" : 0,  
  "limit" : 500,  
  "sort" : "asc"  
}
```

Example Responses

Status code: 200

Response body.

```
{
  "has_more" : true,
  "end_offset" : "5424",
  "start_offset" : "0",
  "log" : "[2024/06/20 17:26:35.044 GMT+08:00] [INFO] : [JobStatusPlugin] onStarted:Status: Downloaded
newer image for swzip-1.1.0",
  "step_run_id" : "ab9ac44f82004f8b9ab5d5a492122581"
}
```

Status Codes

Status Code	Description
200	Response body.

Error Codes

See [Error Codes](#).

4.2.25 Passing a Delayed Execution Job

Function

This API is used to pass a delayed execution job.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v5/{project_id}/api/pipelines/{pipeline_id}/pipeline-runs/{pipelineRunId}/jobs/{jobRunId}/steps/{stepRunId}/delay-pass

Table 4-178 Path Parameters

Parameter	Mandatory	Type	Description
pipelineRunId	Yes	String	Pipeline run ID. The return value of the API for starting a pipeline is the pipeline run ID.
jobRunId	Yes	String	Pipeline job ID.
stepRunId	Yes	String	Pipeline step ID.

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-179 Response body parameters

Parameter	Type	Description
success	Boolean	Definition: Whether the operation is successful. Value range: • true: The operation is successful. • false: The operation fails.

Example Requests

```
POST https://{endpoint}/v5/e2e18230a85d4d6ab0b56cb6d2246c18/api/pipelines/  
dc73b5ed58a64ab7a469b9480e5f6632/pipeline-runs/164ef29bf79f4a82b8cba64250d3bf77/jobs/  
e94c5568aa8c45feb6fd364ed54c1f60/steps/2fb1acc4c9474534a58c8d0378a8b5cd/delay-pass
```

Example Responses

Status code: 200

Response body.

```
{  
  "success" : true  
}
```

Status Codes

Status Code	Description
200	Response body.

Error Codes

See [Error Codes](#).

4.2.26 Rejecting a Delayed Execution Job

Function

This API is used to reject a delayed execution job.

Calling Method

For details, see [Calling APIs](#).

URI

```
POST /v5/{project_id}/api/pipelines/{pipeline_id}/pipeline-runs/{pipelineRunId}/  
jobs/{jobRunId}/steps/{stepRunId}/delay-refuse
```


Table 4-180 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipelineRunId	Yes	String	Pipeline run ID. The return value of the API for starting a pipeline is the pipeline run ID.
jobRunId	Yes	String	Pipeline job ID.
stepRunId	Yes	String	Pipeline step ID.

Request Parameters

None

Response Parameters

Status code: 200

Table 4-181 Response body parameters

Parameter	Type	Description
success	Boolean	Definition: Whether the operation is successful. Value range: • true: The operation is successful. • false: The operation fails.

Example Requests

```
POST https://{endpoint}/v5/e2e18230a85d4d6ab0b56cb6d2246c18/api/pipelines/  
dc73b5ed58a64ab7a469b9480e5f6632/pipeline-runs/e06f48fb3d0543f6ad439d2ded80a2c7/jobs/  
a5fc406c567d435e8375a17b9ace7e35/steps/a7d9b849ddeb46259c3dae452ebcb3e0/delay-refuse
```

Example Responses

Status code: 200

Response body.

```
{  
  "success" : true  
}
```

Status Codes

Status Code	Description
200	Response body.

Error Codes

See [Error Codes](#).

4.2.27 Delaying the Execution for One Hour

Function

This API is used to delay the execution for one hour.

Calling Method

For details, see [Calling APIs](#).

URI

```
POST /v5/{project_id}/api/pipelines/{pipeline_id}/pipeline-runs/{pipelineRunId}/  
jobs/{jobRunId}/steps/{stepRunId}/delay
```

Table 4-182 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipelineRunId	Yes	String	Pipeline run ID. The return value of the API for starting a pipeline is the pipeline run ID.
jobRunId	Yes	String	Pipeline job ID.
stepRunId	Yes	String	Pipeline step ID.

Request Parameters

None

Response Parameters

Status code: 200

Table 4-183 Response body parameters

Parameter	Type	Description
success	Boolean	Definition: Whether the operation is successful. Value range: true: The operation is successful. false: The operation fails.

Example Requests

```
POST https://{endpoint}/v5/e2e18230a85d4d6ab0b56cb6d2246c18/api/pipelines/  
dc73b5ed58a64ab7a469b9480e5f6632/pipeline-runs/07bca108a47e42309eedc0c2be895f06/jobs/  
8bb8e58a736d40ce9854c7af95f9e053/steps/83f85157d1e343d69fb024654f8ad4d8/delay  
{ }
```

Example Responses

Status code: 200

Response body.

```
{  
  "success" : true  
}
```

Status Codes

Status Code	Description
200	Response body.

Error Codes

See [Error Codes](#).

4.2.28 Passing the Manual Check Point

Function

This API is used to pass the manual check point.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v5/{project_id}/api/pipelines/{pipeline_id}/pipeline-runs/{pipeline_run_id}/steps/{step_run_id}/manual/pass

Table 4-184 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Parameter	Mandatory	Type	Description
pipeline_run_id	Yes	String	Definition: Pipeline run ID. The return value of the API for starting a pipeline is the pipeline run ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
step_run_id	Yes	String	Pipeline step ID.

Request Parameters

None

Response Parameters

Status code: 200

Table 4-185 Response body parameters

Parameter	Type	Description
success	Boolean	Definition: Whether the operation is successful. Value range: true: The operation is successful. false: The operation fails.

Example Requests

```
POST https://{endpoint}/v5/e2e18230a85d4d6ab0b56cb6d2246c18/api/pipelines/  
dc73b5ed58a64ab7a469b9480e5f6632/pipeline-runs/49d1f149d683497799a44f966fd285b7/jobs/  
a4e8a0c45e744137903461dd01fdecff/steps/4330cd5b992b4a539bb8209de3db7278/pass
```

Example Responses

Status code: 200

Response body.

```
{  
  "success" : true  
}
```

Status Codes

Status Code	Description
200	Response body.

Error Codes

See [Error Codes](#).

4.2.29 Rejecting the Manual Check Point

Function

This API is used to reject the manual check point.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v5/{project_id}/api/pipelines/{pipeline_id}/pipeline-runs/{pipeline_run_id}/steps/{stepRunId}/manual/refuse

Table 4-186 Path Parameters

Parameter	Mandatory	Type	Description
stepRunId	Yes	String	Definition: Pipeline step ID. Obtain the ID by calling the API for querying pipeline details . stages.jobs.steps indicates the step ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipeline_run_id	Yes	String	Definition: Pipeline run ID. The return value of the API for starting a pipeline is the pipeline run ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-187 Response body parameters

Parameter	Type	Description
success	Boolean	Definition: Whether the operation is successful. Value range: • true: The operation is successful. • false: The operation fails.

Example Requests

```
POST https://{endpoint}/v5/e2e18230a85d4d6ab0b56cb6d2246c18/api/pipelines/  
dc73b5ed58a64ab7a469b9480e5f6632/pipeline-runs/354cf6f0b16e46339ca37a177165f0f4/jobs/  
44df81750064499480dccc66872705ae/steps/e84931f21b1d45be99445c72fc086c47/refuse
```

Example Responses

Status code: 200

Response body.

```
{  
  "success" : true  
}
```

Status Codes

Status Code	Description
200	Response body.

Error Codes

See [Error Codes](#).

4.2.30 Resuming a Pipeline

Function

This API is used to resume a pipeline.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v5/{project_id}/api/pipelines/{pipeline_id}/pipeline-runs/{pipelineRunId}/
jobs/{jobRunId}/steps/{stepRunId}/resume

Table 4-188 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipelineRunId	Yes	String	Pipeline run ID. The return value of the API for starting a pipeline is the pipeline run ID.
jobRunId	Yes	String	Pipeline job ID.
stepRunId	Yes	String	Pipeline step ID.

Request Parameters

None

Response Parameters

Status code: 200

Table 4-189 Response body parameters

Parameter	Type	Description
success	Boolean	Definition: Whether the operation is successful. Value range: • true: The operation is successful. • false: The operation fails.

Example Requests

```
POST https://{endpoint}/v5/e2e18230a85d4d6ab0b56cb6d2246c18/api/pipelines/  
dc73b5ed58a64ab7a469b9480e5f6632/pipeline-runs/b72018a78183443b85a754f5f8dcab82/jobs/  
dff98cdf546a419e86d44563e652f09f/steps/91c3ede034af44f2a613531a32e87200/resume
```

Example Responses

Status code: 200

Response body.

```
{  
  "success" : true  
}
```

Status Codes

Status Code	Description
200	Response body.

Error Codes

See [Error Codes](#).

4.2.31 Querying the Batch Pipeline Execution Result

Function

This API is used to query the batch pipeline execution result.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v5/{project_id}/api/pipelines/batch-runs/result

Table 4-190 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-191 Request body parameters

Parameter	Mandatory	Type	Description
query	Yes	Array of query objects	Request body.

Table 4-192 query

Parameter	Mandatory	Type	Description
pipeline_id	Yes	String	Pipeline ID.
pipeline_run_id	Yes	String	Pipeline run ID. The return value of the API for starting a pipeline is the pipeline run ID.

Response Parameters

Status code: 200

Table 4-193 Response body parameters

Parameter	Type	Description
result	Array of result objects	Response body.

Table 4-194 result

Parameter	Type	Description
pipeline_id	String	Pipeline ID.
pipeline_name	String	Pipeline name.
pipeline_run_id	String	Pipeline run ID. The return value of the API for starting a pipeline is the pipeline run ID.
status	String	Pipeline startup status.
reason	String	Cause of the pipeline startup failure.

Example Requests

POST https://{endpoint}/v5/db8d07265e24426598b3eb03a7818972/api/pipelines/batch-runs/result

```
{
  "query" : [ {
    "pipeline_id" : "6ba9a2dbc7024c22a9a6614516dc22db",
    "pipeline_run_id" : "e41fe3981361476eb6dad17ad98c683c"
  }, {
    "pipeline_id" : "d7013d2402ff4cc88489ee5af324e049",
    "pipeline_run_id" : "3d8143d197dd4fa5b23f20ee39179af3"
  }, {
    "pipeline_id" : "2eb1fc4d750546b3bbc2566a7cf34d5b",
    "pipeline_run_id" : "ba15657cb88d46deb9e17f203a061f21"
  }, {
    "pipeline_id" : "cce81e5f7e604b609172aafcae73c025",
    "pipeline_run_id" : "73861d5a72e6417a81abb1baba1a8d16"
  }, {
    "pipeline_id" : "1d5107b3cd4746a3a03efef83b9e4e45",
    "pipeline_run_id" : "f68aa7ca562f4f31bfbb63628de0e2cd"
  }, {
    "pipeline_id" : "70aa57009b0d433587b58faf05e4fd7f",
    "pipeline_run_id" : "cd96020f0e2748048a6b4d1a15091c9b"
  } ]
}
```

Example Responses

Status code: 200

Response body.

```
{
  "result" : [ {
    "pipeline_id" : "6ba9a2dbc7024c22a9a6614516dc22db",
    "pipeline_name" : "Pipeline 1",
```

```
{
  "pipeline_run_id" : "e41fe3981361476eb6dad17ad98c683c",
  "status" : "START_FAILED",
  "reason" : "Current pipeline is banned."
}, {
  "pipeline_id" : "d7013d2402ff4cc88489ee5af324e049",
  "pipeline_name" : "Pipeline 2",
  "pipeline_run_id" : "3d8143d197dd4fa5b23f20ee39179af3",
  "status" : "START_SUCCESS",
  "reason" : null
}, {
  "pipeline_id" : "2eb1fc4d750546b3bbc2566a7cf34d5b",
  "pipeline_name" : "Pipeline 3",
  "pipeline_run_id" : "ba15657cb88d46deb9e17f203a061f21",
  "status" : "START_SUCCESS",
  "reason" : null
}, {
  "pipeline_id" : "cce81e5f7e604b609172aafcae73c025",
  "pipeline_name" : "Pipeline 4",
  "pipeline_run_id" : "73861d5a72e6417a81abb1baba1a8d16",
  "status" : "START_FAILED",
  "reason" : "Reached the maximum of 1 concurrencies for single pipeline. Entering the queuing state."
}, {
  "pipeline_id" : "1d5107b3cd4746a3a03efef83b9e4e45",
  "pipeline_name" : "Pipeline 5",
  "pipeline_run_id" : "f68aa7ca562f4f31bfbb63628de0e2cd",
  "status" : "START_FAILED",
  "reason" : "The change request pipeline can not batch run."
}, {
  "pipeline_id" : "70aa57009b0d433587b58faf05e4fd7f",
  "pipeline_name" : "Pipeline 6",
  "pipeline_run_id" : "cd96020f0e2748048a6b4d1a15091c9b",
  "status" : "START_SUCCESS",
  "reason" : null
}
}]
}
```

Status Codes

Status Code	Description
200	Response body.

Error Codes

See [Error Codes](#).

4.2.32 Switching Group Sequence

Function

This API is used to switch group sequence.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v5/{project_id}/api/pipeline-group/swap

Table 4-195 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Table 4-196 Query Parameters

Parameter	Mandatory	Type	Description
groupId1	Yes	String	Group 1
groupId2	Yes	String	Group 2

Request Parameters

None

Response Parameters

Status code: 200

Table 4-197 Response body parameters

Parameter	Type	Description
success	Boolean	Definition: Whether the operation is successful. Value range: true: The operation is successful. false: The operation fails.

Example Requests

```
POST https://{endpoint}/v5/e2e18230a85d4d6ab0b56cb6d2246c18/api/pipeline-group/swap?groupId1=0743e6fd00a946949a0a3e212d2181d1&groupId2=5b3f4b99c6064162be4ab959823e7965
```

Example Responses

Status code: 200

Response body.

```
{  
  "success" : true  
}
```

Status Codes

Status Code	Description
200	Response body.

Error Codes

See [Error Codes](#).

4.2.33 Querying CodeArts Pipeline Notifications

Function

This API is used to query CodeArts Pipeline notifications.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v5/{project_id}/api/pipeline-notices/{pipeline_id}/notice

Table 4-198 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Parameter	Mandatory	Type	Description
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-199 Response body parameters

Parameter	Type	Description
[items]	Array of QueryPipelineNoticeResp objects	Definition: Response body. Value range: N/A

Table 4-200 QueryPipelineNoticeResp

Parameter	Type	Description
event_type	String	Definition: Event type. Value range: N/A

Parameter	Type	Description
notice_data	notice_data object	Definition: Notification details. Value range: N/A

Table 4-201 notice_data

Parameter	Type	Description
notice_types	Array of strings	Definition: Notification type. Value range: N/A
notice_roles	Array of strings	Definition: Notification rule. Value range: N/A
notice_users	String	Definition: User who receives notifications. Value range: N/A

Example Requests

```
GET https://(endpoint)/v5/e2e18230a85d4d6ab0b56cb6d2246c18/api/pipeline-notices/  
0747d5a7099e45f69dc1d099945909a9/notice
```

Example Responses

Status code: 200

Response body.

```
[ {  
  "event_type" : "pipeline.updated",  
  "notice_data" : {  
    "notice_types" : [ "MESSAGE" ],  
    "notice_roles" : [ "CREATOR", "EXECUTOR", "COLLECTOR" ],  
    "notice_users" : null  
  }  
}, {  
  "event_type" : "pipeline.deleted",  
  "notice_data" : {  
    "notice_types" : [ "MESSAGE" ],  
    "notice_roles" : [ "CREATOR", "EXECUTOR", "COLLECTOR" ],  
    "notice_users" : null  
  }  
}
```

```
}, {  
  "event_type" : "pipelineRun.succeed",  
  "notice_data" : {  
    "notice_types" : [ "MESSAGE" ],  
    "notice_roles" : [ "CREATOR", "EXECUTOR", "COLLECTOR" ],  
    "notice_users" : null  
  }  
}, {  
  "event_type" : "pipelineRun.failed",  
  "notice_data" : {  
    "notice_types" : [ "MESSAGE" ],  
    "notice_roles" : [ "CREATOR", "EXECUTOR", "COLLECTOR" ],  
    "notice_users" : null  
  }  
}  
}]
```

Status Codes

Status Code	Description
200	Response body.

Error Codes

See [Error Codes](#).

4.2.34 Updating CodeArts Pipeline notifications

Function

This API is used to update CodeArts Pipeline notifications.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v5/{project_id}/api/pipeline-notices/{pipeline_id}/notice

Table 4-202 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-203 Request body parameters

Parameter	Mandatory	Type	Description
event_type	Yes	String	Event type.
notice_data	Yes	notice_data object	Details.

Table 4-204 notice_data

Parameter	Mandatory	Type	Description
notice_types	Yes	Array of strings	Notification type.
notice_roles	Yes	Array of strings	Notification rules.

Response Parameters

Status code: 200

Table 4-205 Response body parameters

Parameter	Type	Description
status	String	Definition: Response status. Value range: N/A

Example Requests

```
POST https://(endpoint)/v5/e2e18230a85d4d6ab0b56cb6d2246c18/api/pipeline-notices/  
0747d5a7099e45f69dc1d099945909a9/notice
```

```
{  
  "event_type" : "pipeline.deleted",  
  "notice_data" : {  
    "notice_types" : [ "MESSAGE", "EMAIL" ],  
    "notice_roles" : [ "CREATOR", "EXECUTOR", "COLLECTOR" ]  
  }  
}
```

Example Responses

Status code: 200

Response body.

```
{  
  "status" : "success"  
}
```

Status Codes

Status Code	Description
200	Response body.

Error Codes

See [Error Codes](#).

4.2.35 Enabling or Disabling CodeArts Pipeline Notifications

Function

This API is used to enable or disable CodeArts Pipeline notifications.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v5/{project_id}/api/pipeline-notices/{pipeline_id}/notice/all

Table 4-206 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-207 Request body parameters

Parameter	Mandatory	Type	Description
notice_type	Yes	String	Notification type.
notice_switch	Yes	Boolean	Switch status.

Response Parameters

Status code: 200

Table 4-208 Response body parameters

Parameter	Type	Description
status	String	Definition: Response status. Value range: N/A

Example Requests

```
POST https://(endpoint)/v5/e2e18230a85d4d6ab0b56cb6d2246c18/api/pipeline-notices/0747d5a7099e45f69dc1d099945909a9/notice/all
{
  "notice_type": "officialNotice",
  "notice_switch": false
}
```

Example Responses

Status code: 200

Response body.

```
{
  "status": "success"
}
```

Status Codes

Status Code	Description
200	Response body.

Error Codes

See [Error Codes](#).

4.2.36 Querying Third-Party Pipeline Notifications

Function

This API is used to query third-party pipeline notifications.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v5/{project_id}/api/pipeline-notices/{pipeline_id}/notice/message

Table 4-209 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-210 Response body parameters

Parameter	Type	Description
notice_id	String	Message ID.
pipeline_id	String	Pipeline ID.
notice_type	String	Message type.
notice_status	Boolean	Message status.
send_url	String	Sending URL.
notice_events	Array of strings	Event type.
notice_contents	Array of strings	Message content.
notice_users	Array of strings	User who sends the message.
secret_info	String	Key information.
sort_index	Integer	Sorting.

Example Requests

```
GET https://(endpoint)/v5/e2e18230a85d4d6ab0b56cb6d2246c18/api/pipeline-notices/  
0747d5a7099e45f69dc1d099945909a9/notice/message
```

Example Responses

Status code: 200

Response body.

```
[ {  
  "notice_id" : "dd58644df44d426d862eea6f8a456b43",  
  "pipeline_id" : "0747d5a7099e45f69dc1d099945909a9",  
  "notice_type" : "feishu",  
  "notice_status" : false,  
  "send_url" : "https://123",  
  "notice_events" : [ "pipelineRun.pause" ],  
  "notice_contents" : [ "projectName" ],  
  "notice_users" : [ "12" ],  
  "secret_info" : "12",  
  "sort_index" : 0  
}]
```

Status Codes

Status Code	Description
200	Response body.

Error Codes

See [Error Codes](#).

4.2.37 Updating Third-Party Pipeline Notifications

Function

This API is used to update third-party pipeline notifications.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v5/{project_id}/api/pipeline-notices/{pipeline_id}/notice/message

Table 4-211 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Parameter	Mandatory	Type	Description
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-212 Request body parameters

Parameter	Mandatory	Type	Description
notice_id	Yes	String	Message ID.
notice_type	Yes	String	Message type.
notice_status	Yes	Boolean	Message status.
send_url	Yes	String	URL sent.
secret_info	Yes	String	Key information.
notice_events	Yes	Array of strings	Notification event.
notice_contents	Yes	Array of strings	Notification content.
notice_users	Yes	Array of strings	Notified users.
sort_index	Yes	Integer	Sorting.

Response Parameters

Status code: 200

Table 4-213 Response body parameters

Parameter	Type	Description
status	String	Definition: Response status. Value range: N/A

Example Requests

POST https://(endpoint)/v5/e2e18230a85d4d6ab0b56cb6d2246c18/api/pipeline-notices/
0747d5a7099e45f69dc1d099945909a9/notice/message

```
{
  "notice_id" : "dd58644df44d426d862eea6f8a456b43",
  "notice_type" : "feishu",
  "notice_status" : true,
  "send_url" : "https://123",
  "secret_info" : "121",
  "notice_events" : [ "pipelineRun.pause" ],
  "notice_contents" : [ "projectName" ],
  "notice_users" : [ "12" ],
  "sort_index" : 0
}
```

Example Responses

Status code: 200

Response body.

```
{
  "status" : "success"
}
```

Status Codes

Status Code	Description
200	Response body.

Error Codes

See [Error Codes](#).

4.2.38 Querying Pipeline Role Permissions

Function

This API is used to query pipeline role permissions.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v5/{project_id}/api/pipeline-permissions/{pipeline_id}/role-permission

Table 4-214 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-215 Response body parameters

Parameter	Type	Description
roles	Array of roles objects	Definition: Details. Value range: N/A

Table 4-216 roles

Parameter	Type	Description
pipeline_id	String	Definition: Pipeline ID. Value range: The value consists of 32 characters, including digits and letters.
role_id	Integer	Definition: Role ID. Value range: N/A
role_name	String	Definition: Role name. Value range: N/A
operation_query	Boolean	Definition: Whether the query permission is granted. Value range: • true: The query permission is granted. • false: The query permission is not granted.
operation_execute	Boolean	Definition: Whether the execution permission is granted. Value range: • true: The execution permission is granted. • false: The execution permission is not granted.

Parameter	Type	Description
operation_update	Boolean	Definition: Whether the edit permission is granted. Value range: • true: The edit permission is granted. • false: The edit permission is not granted.
operation_delete	Boolean	Definition: Whether the delete permission is granted. Value range: • true: The delete permission is granted. • false: The delete permission is not granted.
operation_authorize	Boolean	Definition: Whether the permission to edit pipeline permission configurations is granted. Value range: • true: The permission to edit pipeline permission configurations is granted. • false: The permission to edit pipeline permission configurations is not granted.

Example Requests

```
GET https://(endpoint)/v5/e2e18230a85d4d6ab0b56cb6d2246c18/api/pipeline-permissions/  
0747d5a7099e45f69dc1d099945909a9/role-permission
```

Example Responses

Status code: 200

ok

```
{  
  "roles": [ {  
    "pipeline_id": null,  
    "role_id": 1,  
    "role_name": "Pipeline creator",  
    "operation_query": true,  
    "operation_execute": true,  
    "operation_update": true,  
    "operation_delete": true,  
    "operation_authorize": false
```

```
}]  
}
```

Status Codes

Status Code	Description
200	ok

Error Codes

See [Error Codes](#).

4.2.39 Querying Pipeline User Permissions

Function

This API is used to query pipeline user permissions.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v5/{project_id}/api/pipeline-permissions/{pipeline_id}/user-permission

Table 4-217 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Parameter	Mandatory	Type	Description
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Table 4-218 Query Parameters

Parameter	Mandatory	Type	Description
subject	No	String	Definition: Fuzzy search by username. Constraints: N/A Value range: N/A Default value: N/A
limit	Yes	Long	Definition: Number of records of each query. Constraints: N/A Value range: The value is no less than 0 . Default value: N/A

Parameter	Mandatory	Type	Description
offset	Yes	Long	Definition: Offset where the query starts. Constraints: N/A Value range: The value is no less than 0 . Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-219 Response body parameters

Parameter	Type	Description
offset	Integer	Definition: Offset where the query starts. Value range: The offset value must be no less than 0.
limit	Integer	Definition: Number of records of each query. Value range: The value is no less than 0 .
total	Integer	Definition: Total number of queried records. Value range: N/A
users	Array of users objects	Definition: User permissions. Value range: N/A

Table 4-220 users

Parameter	Type	Description
pipeline_id	String	Definition: Pipeline ID. Value range: N/A
role_id	Integer	Definition: Role ID. Value range: N/A
role_name	String	Definition: Role name. Value range: N/A
operation_query	Boolean	Definition: Query permission. Value range: N/A
operation_execute	Boolean	Definition: Execution permission. Value range: N/A
operation_update	Boolean	Definition: Edit permission. Value range: N/A
operation_delete	Boolean	Definition: Delete permission. Value range: N/A
operation_authorize	Boolean	Definition: Permission to edit the pipeline permission configurations. Value range: N/A

Parameter	Type	Description
user_id	String	Definition: User ID. Value range: N/A
user_name	String	Definition: Username. Value range: N/A
domain_name	String	Definition: Tenant name. Value range: N/A
nick_name	String	Definition: Nickname. Value range: N/A
remark_name	String	Definition: Remarks. Value range: N/A
tags	String	Definition: Label. Value range: N/A

Example Requests

```
GET https://(endpoint)/v5/e2e18230a85d4d6ab0b56cb6d2246c18/api/pipeline-permissions/  
0747d5a7099e45f69dc1d099945909a9/user-permission?subject=&limit=10&offset=0
```

Example Responses

Status code: 200

Response body.

```
{  
  "offset" : 0,  
  "limit" : 10,  
  "total" : 1,  
  "users" : [ {  
    "pipeline_id" : "0747d5a7099e45f69dc1d099945909a9",  
    "role_id" : 1,  

```

```
"role_name" : "Pipeline creator",
"operation_query" : true,
"operation_execute" : true,
"operation_update" : true,
"operation_delete" : true,
"operation_authorize" : false,
"user_id" : "123456",
"user_name" : "p_t123",
"domain_name" : "1234546",
"nick_name" : "n23456",
"remark_name" : null,
"tags" : null
} ]
}
```

Status Codes

Status Code	Description
200	Response body.

Error Codes

See [Error Codes](#).

4.2.40 Modifying Pipeline Role Permissions

Function

This API is used to modify pipeline role permissions.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v5/{project_id}/api/pipeline-permissions/{pipeline_id}/update-role-permission

Table 4-221 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-222 Request body parameters

Parameter	Mandatory	Type	Description
pipeline_id	No	String	Pipeline ID.
operation_query	Yes	Boolean	Permission to query.
operation_execute	Yes	Boolean	Permission to execute.
operation_update	Yes	Boolean	Permission to edit.

Parameter	Mandatory	Type	Description
operation_delete	Yes	Boolean	Permission to delete.
operation_authorize	Yes	Boolean	Permission configuration permissions.
role_id	Yes	Integer	Role ID.

Response Parameters

Status code: 200

Table 4-223 Response body parameters

Parameter	Type	Description
status	String	Definition: Response status. Value range: N/A

Example Requests

```
POST https://(endpoint)/v5/e2e18230a85d4d6ab0b56cb6d2246c18/api/pipeline-permissions/0747d5a7099e45f69dc1d099945909a9/update-role-permission
```

```
{
  "pipeline_id" : null,
  "operation_query" : true,
  "operation_execute" : true,
  "operation_update" : true,
  "operation_delete" : false,
  "operation_authorize" : false,
  "role_id" : 4
}
```

Example Responses

Status code: 200

Response body.

```
{
  "status" : "success"
}
```

Status Codes

Status Code	Description
200	Response body.

Error Codes

See [Error Codes](#).

4.2.41 Modifying Pipeline User Permissions

Function

This API is used to modify pipeline user permissions.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v5/{project_id}/api/pipeline-permissions/{pipeline_id}/update-user-permission

Table 4-224 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Parameter	Mandatory	Type	Description
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-225 Request body parameters

Parameter	Mandatory	Type	Description
pipeline_id	No	String	Pipeline ID.
operation_query	Yes	Boolean	Permission to query.
operation_execute	Yes	Boolean	Permission to execute.
operation_update	Yes	Boolean	Permission to edit.
operation_delete	Yes	Boolean	Permission to delete.
operation_authorize	Yes	Boolean	Permission configuration permissions.
user_id	Yes	String	User ID.

Response Parameters

Status code: 200

Table 4-226 Response body parameters

Parameter	Type	Description
status	String	Definition: Response status. Value range: N/A

Example Requests

```
POST https://(endpoint)/v5/071112d87d3e4ed49130c691936202e9/api/pipeline-permissions/53acae73a3f44b2994f9b20a710721c6/update-user-permission
```

```
{
  "pipeline_id" : "53acae73a3f44b2994f9b20a710721c6",
  "operation_query" : false,
  "operation_execute" : true,
  "operation_update" : true,
  "operation_delete" : true,
  "operation_authorize" : false,
  "user_id" : "c5d7272cff4b4495b338934fa34a345e"
}
```

Example Responses

Status code: 200

Response body.

```
{
  "status" : "success"
}
```

Status Codes

Status Code	Description
200	Response body.

Error Codes

See [Error Codes](#).

4.2.42 Querying Whether Pipeline Resource-Level Permission Is Enabled

Function

This API is used to query whether pipeline resource-level permission is enabled.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v5/{project_id}/api/pipeline-permissions/{pipeline_id}/permission-switch

Table 4-227 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-228 Response body parameters

Parameter	Type	Description
is_use_devuc	Boolean	Whether to enable project permission configuration.
is_allow_edit	Boolean	Whether the permissions can be edited.

Example Requests

```
GET https://{endpoint}/v5/071112d87d3e4ed49130c691936202e9/api/pipeline-permissions/53acae73a3f44b2994f9b20a710721c6/permission-switch
```

Example Responses

Status code: 200

Response body.

```
{
  "is_use_devuc" : false,
  "is_allow_edit" : true
}
```

Status Codes

Status Code	Description
200	Response body.

Error Codes

See [Error Codes](#).

4.2.43 Updating Pipeline Resource-Level Permissions Status

Function

This API is used to update pipeline resource-level permissions status.

Calling Method

For details, see [Calling APIs](#).

URI

```
PUT /v5/{project_id}/api/pipeline-permissions/{pipeline_id}/update-permission-switch
```

Table 4-229 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Table 4-230 Query Parameters

Parameter	Mandatory	Type	Description
flag	Yes	Boolean	Definition: Whether to enable resource-level permissions. Constraints: N/A Value range: • true: The resource-level permissions are enabled. • false: The resource-level permissions are disabled. Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-231 Response body parameters

Parameter	Type	Description
status	String	Definition: Response status. Value range: N/A

Example Requests

```
PUT https://(endpoint)/v5/071112d87d3e4ed49130c691936202e9/api/pipeline-permissions/53acae73a3f44b2994f9b20a710721c6/update-permission-switch?flag=true
```

Example Responses

Status code: 200

Response body.

```
{
  "status" : "success"
}
```

Status Codes

Status Code	Description
200	Response body.

Error Codes

See [Error Codes](#).

4.2.44 Setting Pipeline Resource-Level Permissions for Different Roles

Function

This API is used to set pipeline resource-level permissions for different roles.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v5/{project_id}/api/pipeline-permissions/pipeline/batch-role-permission

Table 4-232 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-233 Request body parameters

Parameter	Mandatory	Type	Description
pipeline_ids	Yes	Array of strings	Pipeline ID list.
is_project_switch	Yes	Boolean	Whether to enable project permission configuration.
roles	Yes	Array of roles objects	Role details list.

Table 4-234 roles

Parameter	Mandatory	Type	Description
operation_authorize	Yes	Boolean	Permission configuration permissions.
operation_delete	Yes	Boolean	Permission to delete.
operation_execute	Yes	Boolean	Permission to execute.
operation_query	Yes	Boolean	Permission to query.
operation_update	Yes	Boolean	Permission to update.
role_id	Yes	Integer	Role ID.

Response Parameters

Status code: 200

Table 4-235 Response body parameters

Parameter	Type	Description
status	String	Definition: Response status. Value range: N/A

Example Requests

POST https://(endpoint)/v5/071112d87d3e4ed49130c691936202e9/api/pipeline-permissions/pipeline/batch-role-permission

```
{
  "pipeline_ids" : [ "53acae73a3f44b2994f9b20a710721c6", "146542db758a4dc0995b44dff13e1933" ],
  "is_project_switch" : false,
  "roles" : [ {
    "operation_authorize" : false,
    "operation_delete" : true,
    "operation_execute" : true,
    "operation_query" : true,
    "operation_update" : true,
    "role_id" : 3
  }, {
    "operation_authorize" : false,
    "operation_delete" : false,
    "operation_execute" : true,
    "operation_query" : true,
    "operation_update" : false,
    "role_id" : 4
  }, {
    "operation_authorize" : false,
    "operation_delete" : false,
    "operation_execute" : true,
    "operation_query" : true,
    "operation_update" : false,
    "role_id" : 5
  }, {
    "operation_authorize" : false,
    "operation_delete" : false,
    "operation_execute" : false,
    "operation_query" : true,
    "operation_update" : false,
    "role_id" : 6
  }, {
    "operation_authorize" : false,
    "operation_delete" : true,
    "operation_execute" : true,
    "operation_query" : true,
    "operation_update" : true,
    "role_id" : 7
  }, {
    "operation_authorize" : false,
    "operation_delete" : false,
    "operation_execute" : false,
    "operation_query" : true,
    "operation_update" : false,
    "role_id" : 8
  }, {
    "operation_authorize" : false,
    "operation_delete" : false,
    "operation_execute" : false,
    "operation_query" : true,
    "operation_update" : false,
    "role_id" : 9
  } ]
}
```

Example Responses

Status code: 200

Response body.

```
{
  "status" : "success"
}
```

Status Codes

Status Code	Description
200	Response body.

Error Codes

See [Error Codes](#).

4.2.45 Canceling a Pipeline Queuing

Function

This API is used to cancel a pipeline queuing.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v5/{project_id}/api/pipelines/{pipeline_id}/{pipelineRunId}/cancel-queuing/{id}

Table 4-236 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Parameter	Mandatory	Type	Description
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipelineRunId	Yes	String	Pipeline run ID. The return value of the API for starting a pipeline is the pipeline run ID.
id	Yes	String	Pipeline queuing ID.

Request Parameters

None

Response Parameters

Status code: 200

Table 4-237 Response body parameters

Parameter	Type	Description
pipeline_run_id	String	Definition: Pipeline run ID. The return value of the API for starting a pipeline is the pipeline run ID. Value range: The value consists of 32 characters, including only digits and letters.

Example Requests

```
POST https://(endpoint)/v5/071112d87d3e4ed49130c691936202e9/api/pipelines/  
c173d99dbbb54626b64cf5694c0a4e8e/071112d87d3e4ed49130c691936202e9/cancel-queuing/1
```

Example Responses

Status code: 200

Response body.

```
{
  "pipeline_run_id" : "8173263bf6c743f4b13f65bbf62dbf2c"
}
```

Status Codes

Status Code	Description
200	Response body.

Error Codes

See [Error Codes](#).

4.2.46 Querying Queuing Records in the Current Pipeline

Function

This API is used to query the queuing records in the current pipeline.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v5/{project_id}/api/pipelines/{pipeline_id}/queued-pipeline

Table 4-238 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Parameter	Mandatory	Type	Description
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Table 4-239 Query Parameters

Parameter	Mandatory	Type	Description
offset	Yes	Long	Definition: Offset where the query starts. Constraints: N/A Value range: The offset value must be no less than 0. Default value: N/A
limit	Yes	Long	Definition: Number of records of each query. Constraints: N/A Value range: The value is no less than 0. Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-240 Response body parameters

Parameter	Type	Description
offset	Integer	Definition: Offset where the query starts. Value range: The offset value must be no less than 0.
limit	Integer	Definition: Number of records of each query. Value range: The value is no less than 0.
total	Integer	Definition: Total number of items. Value range: The value is no less than 0.
queuedPipelines	Array of queuedPipelines objects	Definition: Queuing record list. Value range: N/A

Table 4-241 queuedPipelines

Parameter	Type	Description
id	Integer	Definition: Queuing record ID. Value range: N/A
pipeline_id	String	Definition: Pipeline ID. Value range: The value consists of 32 characters, including digits and letters.

Parameter	Type	Description
pipeline_run_id	String	Definition: Pipeline run ID. Value range: The value consists of 32 characters, including digits and letters.
region	String	Definition: Region. Value range: N/A
enqueue_time	Integer	Definition: Enqueuing time. Value range: N/A
trigger_type	String	Definition: Trigger type. Value range: N/A
creator_id	String	Definition: ID of the user who triggers the pipeline. Value range: The value consists of 32 characters, including digits and letters.
creator_name	String	Definition: Name of the user who triggers the pipeline. Value range: N/A
status	String	Definition: Queuing status. QUEUED : queuing; QUEUED_TIME_OUT : queuing timed out. Value range: QUEUED, QUEUED_TIME_OUT.
merge_id	String	Definition: ID of a queued MR. Value range: N/A

Example Requests

```
GET https://(endpoint)/v5/071112d87d3e4ed49130c691936202e9/api/pipelines/  
c173d99dbbb54626b64cf5694c0a4e8e/queued-pipeline?offset=0&limit=10
```

Example Responses

Status code: 200

OK

```
{  
  "offset" : 0,  
  "limit" : 10,  
  "total" : 1,  
  "queuedPipelines" : [ {  
    "id" : 136,  
    "pipeline_id" : "c173d99dbbb54626b64cf5694c0a4e8e",  
    "pipeline_run_id" : "b5c22bc545144ea7bf761191821c8b36",  
    "region" : "{region}",  
    "enqueue_time" : 1718951334000,  
    "trigger_type" : "Manual",  
    "creator_id" : "123456",  
    "creator_name" : "123-5",  
    "status" : "QUEUED",  
    "merge_id" : 123456  
  } ]  
}
```

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.2.47 Querying the Running Records of a Pipeline of the Old Version

Function

This API is used to query the running records of a pipeline of the old version.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v5/{project_id}/api/pipelines/{pipeline_id}/pipeline-runs/list-legacy

Table 4-242 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-243 Request body parameters

Parameter	Mandatory	Type	Description
offset	Yes	Long	Offset.
limit	Yes	Long	Number of records on each page.
status	No	String	Status.
sort_key	No	String	Sorting key.
sort_dir	No	String	(Optional) Sorting type. asc: Ascending; desc: Descending.

Parameter	Mandatory	Type	Description
start_time	Yes	String	Start time.
end_time	Yes	String	End time.

Response Parameters

Status code: 200

Table 4-244 Response body parameters

Parameter	Type	Description
offset	Integer	Offset.
limit	Integer	Number of records on each page.
total	Integer	Definition: Total number of items. Value range: The value is no less than 0 .
pipeline_runs	Array of pipeline_runs objects	Details list.

Table 4-245 pipeline_runs

Parameter	Type	Description
pipeline_id	String	Pipeline ID.
pipeline_run_id	String	Pipeline run ID. The return value of the API for starting a pipeline is the pipeline run ID.
executor_id	String	Executor ID.
executor_name	String	Executor name.
executor_user_name	String	Executor username.
stage_status_list	Array of stage_status_list objects	Stage status.
status	String	Running status.
run_number	Integer	Running No.

Parameter	Type	Description
trigger_type	String	Trigger type.
build_params	String	Build parameter.
artifact_params	String	Build artifact parameter.
start_time	Integer	Start time.
end_time	Integer	End time.
modify_url	String	The modifying page URL.
detail_url	String	The details page URL.

Table 4-246 stage_status_list

Parameter	Type	Description
id	String	Stage ID.
name	String	Stage name.
sequence	Integer	Stage No.
status	String	Stage status.
start_time	String	Start time.
end_time	String	End time.

Example Requests

POST https://(endpoint)/v5/db8d07265e24426598b3eb03a7818972/api/pipelines/e69862ac24f843fcb4ce4d5fe88ebcb7/pipeline-runs/list-legacy

```
{
  "offset" : 0,
  "limit" : 10,
  "status" : null,
  "sort_key" : "start_time",
  "sort_dir" : "",
  "start_time" : "2024-05-22 00:00:00",
  "end_time" : "2024-06-21 14:35:40"
}
```

Example Responses

Status code: 200

Response body.

```
{
  "offset" : 0,
  "limit" : 10,
  "total" : 1,
  "pipeline_runs" : [ {
```

```
{
  "pipeline_id": "e69862ac24f843fcb4ce4d5fe88ebcb7",
  "pipeline_run_id": "703177350",
  "executor_id": "847a5317086c41798469d0868535943a",
  "executor_name": "be123",
  "executor_user_name": "test",
  "stage_status_list": [ {
    "id": "",
    "name": "Pipeline source",
    "sequence": 0,
    "status": "COMPLETED",
    "start_time": "2024-06-21 14:38:07",
    "end_time": "2024-06-21 14:38:07"
  }, {
    "id": "",
    "name": "Build and check",
    "sequence": 1,
    "status": "COMPLETED",
    "start_time": "2024-06-21 14:38:07",
    "end_time": "2024-06-21 14:38:07"
  } ],
  "status": "COMPLETED",
  "run_number": 1,
  "trigger_type": "Manual",
  "build_params": null,
  "artifact_params": null,
  "start_time": 1718951888000,
  "end_time": 1718951888000,
  "modify_url": null,
  "detail_url": null
} ] }
```

Status Codes

Status Code	Description
200	Response body.

Error Codes

See [Error Codes](#).

4.2.48 Querying Parameters Used in a Pipeline

Function

This API is used to query parameters used in a pipeline.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v5/{project_id}/api/pipelines/{pipeline_id}/pipeline-runs/{pipelineRunId}/run-variables

Table 4-247 Path Parameters

Parameter	Mandatory	Type	Description
pipelineRunId	Yes	String	Pipeline run ID. The return value of the API for starting a pipeline is the pipeline run ID.
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Table 4-248 Query Parameters

Parameter	Mandatory	Type	Description
mode	Yes	Integer	Query mode. 0: user-defined parameter; 1: system parameter; 2: parameter group.

Request Parameters

None

Response Parameters

Status code: 200

Table 4-249 Response body parameters

Parameter	Type	Description
[items]	Array of ListRunVariablesResp objects	Response body.

Table 4-250 ListRunVariablesResp

Parameter	Type	Description
name	String	Parameter name.
sequence	String	Parameter sequence number.
type	String	Parameter type.
value	String	Parameter value.
is_secret	Boolean	Whether the parameter is private. true : private; false : not private.
description	String	Description.
is_runtime	String	Whether the parameter must be set at runtime. true : The parameter must be set at runtime. false : The parameter does not need to be set at runtime.
limits	String	Parameter limit value.
is_reset	Boolean	Reset or not.
latest_value	String	Parameter value of the latest run.
required	Boolean	Mandatory or not. true : mandatory; false : optional.
variableGroupName	String	Parameter group name.

Example Requests

```
GET https://(endpoint)/v5/071112d87d3e4ed49130c691936202e9/api/pipelines/53acae73a3f44b2994f9b20a710721c6/pipeline-runs/13a48f79f7104f9785720cf2c11890ba/run-variables?mode=0
```

Example Responses

Status code: 200

Response body.

```
[ {
  "name" : "PROJECT_ID",
  "sequence" : null,
  "type" : "string",
  "value" : "071112d87d3e4ed49130c691936202e9",
  "is_secret" : false,
  "description" : "ID of the project to which the current pipeline belongs",
  "is_runtime" : null,
  "limits" : null,
  "is_reset" : false,
  "latest_value" : null,
  "required" : true,
  "variableGroupName" : null
}, {
  "name" : "PIPELINE_ID",
  "sequence" : null,
  "type" : "string",
  "value" : "53acae73a3f44b2994f9b20a710721c6",
  "is_secret" : false,
  "description" : "ID of the current pipeline",
  "is_runtime" : null,
  "limits" : null,
  "is_reset" : false,
  "latest_value" : null,
  "required" : true,
  "variableGroupName" : null
}, {
  "name" : "PIPELINE_NUMBER",
  "sequence" : null,
  "type" : "string",
  "value" : "34",
  "is_secret" : false,
  "description" : "Pipeline execution number",
  "is_runtime" : null,
  "limits" : null,
  "is_reset" : false,
  "latest_value" : null,
  "required" : true,
  "variableGroupName" : null
}, {
  "name" : "COMMIT_ID",
  "sequence" : null,
  "type" : "string",
  "value" : "fc315b91f027d252be756ade0b4263f6b6be58f4",
  "is_secret" : false,
  "description" : "ID of the last commit for execution",
  "is_runtime" : null,
  "limits" : null,
  "is_reset" : false,
  "latest_value" : null,
  "required" : true,
  "variableGroupName" : null
}, {
  "name" : "COMMIT_ID_SHORT",
  "sequence" : null,
  "type" : "string",
  "value" : "fc315b91",
  "is_secret" : false,
  "description" : "Short ID of the last code commit for execution",
  "is_runtime" : null,
  "limits" : null,
  "is_reset" : false,
  "latest_value" : null,
  "required" : true,
  "variableGroupName" : null
}, {
  "name" : "TIMESTAMP",
  "sequence" : null,
```

```
"type" : "string",
"value" : "20240621144916",
"is_secret" : false,
"description" : "Pipeline execution timestamp. For example: 20211222124301",
"is_runtime" : null,
"limits" : null,
"is_reset" : false,
"latest_value" : null,
"required" : true,
"variableGroupName" : null
}, {
  "name" : "PIPELINE_TRIGGER_TYPE",
  "sequence" : null,
  "type" : "string",
  "value" : "Manual",
  "is_secret" : false,
  "description" : "Pipeline trigger type, which can be **Manual**, **Scheduler**, **RollBack**, **CreateTag**,
**Note**, **Issue**, **MR**, or **Push**.",
  "is_runtime" : null,
  "limits" : null,
  "is_reset" : false,
  "latest_value" : null,
  "required" : true,
  "variableGroupName" : null
}, {
  "name" : "REPO_URL",
  "sequence" : null,
  "type" : "string",
  "value" : "https://001/test.git",
  "is_secret" : false,
  "description" : "Code repository address (HTTPS)",
  "is_runtime" : null,
  "limits" : null,
  "is_reset" : false,
  "latest_value" : null,
  "required" : true,
  "variableGroupName" : null
}, {
  "name" : "PIPELINE_RUN_ID",
  "sequence" : null,
  "type" : "string",
  "value" : "13a48f79f7104f9785720cf2c11890ba",
  "is_secret" : false,
  "description" : "Pipeline execution ID",
  "is_runtime" : null,
  "limits" : null,
  "is_reset" : false,
  "latest_value" : null,
  "required" : true,
  "variableGroupName" : null
}, {
  "name" : "test_REPOSITORY_NAME",
  "sequence" : null,
  "type" : "string",
  "value" : "test",
  "is_secret" : false,
  "description" : "Repository name",
  "is_runtime" : null,
  "limits" : null,
  "is_reset" : false,
  "latest_value" : null,
  "required" : true,
  "variableGroupName" : null
}, {
  "name" : "test_SOURCE_BRANCH",
  "sequence" : null,
  "type" : "string",
  "value" : "",
  "is_secret" : false,
```



```
"description" : "Name of the branch of the code source",
"is_runtime" : null,
"limits" : null,
"is_reset" : false,
"latest_value" : null,
"required" : true,
"variableGroupName" : null
}, {
  "name" : "test_TARGET_BRANCH",
  "sequence" : null,
  "type" : "string",
  "value" : "branch-001",
  "is_secret" : false,
  "description" : "Name of the target branch of the code source",
  "is_runtime" : null,
  "limits" : null,
  "is_reset" : false,
  "latest_value" : null,
  "required" : true,
  "variableGroupName" : null
}, {
  "name" : "test_TAG",
  "sequence" : null,
  "type" : "string",
  "value" : "",
  "is_secret" : false,
  "description" : "Repository tag name",
  "is_runtime" : null,
  "limits" : null,
  "is_reset" : false,
  "latest_value" : null,
  "required" : true,
  "variableGroupName" : null
}, {
  "name" : "test_COMMIT_ID",
  "sequence" : null,
  "type" : "string",
  "value" : "fc315b91f027d252be756ade0b4263f6b6be58f4",
  "is_secret" : false,
  "description" : "ID of the last code commit for execution",
  "is_runtime" : null,
  "limits" : null,
  "is_reset" : false,
  "latest_value" : null,
  "required" : true,
  "variableGroupName" : null
}, {
  "name" : "test_COMMIT_ID_SHORT",
  "sequence" : null,
  "type" : "string",
  "value" : "fc315b91",
  "is_secret" : false,
  "description" : "Short ID of the last code commit for execution",
  "is_runtime" : null,
  "limits" : null,
  "is_reset" : false,
  "latest_value" : null,
  "required" : true,
  "variableGroupName" : null
}, {
  "name" : "test_REPO_URL",
  "sequence" : null,
  "type" : "string",
  "value" : "https://1/test.git",
  "is_secret" : false,
  "description" : "Code repository address (HTTPS)",
  "is_runtime" : null,
  "limits" : null,
  "is_reset" : false,
```

```
"latest_value" : null,  
"required" : true,  
"variableGroupName" : null  
}]
```

Status Codes

Status Code	Description
200	Response body.

Error Codes

See [Error Codes](#).

4.2.49 Rolling Back the Pipeline Execution

Function

This API is used to roll back the pipeline execution.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v5/{project_id}/api/pipelines/{pipeline_id}/pipeline-runs/{pipelineRunId}/rollback-run

Table 4-251 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Parameter	Mandatory	Type	Description
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipelineRunId	Yes	String	Pipeline run ID. The return value of the API for starting a pipeline is the pipeline run ID.

Request Parameters

Table 4-252 Request body parameters

Parameter	Mandatory	Type	Description
sources	Yes	Array of sources objects	Pipeline source.
description	No	String	Pipeline running description.
variables	No	Array of variables objects	Running parameters.
choose_jobs	Yes	Array of strings	Selected running jobs.
choose_stages	Yes	Array of strings	Selected running stages.

Table 4-253 sources

Parameter	Mandatory	Type	Description
type	Yes	String	Pipeline source type.

Parameter	Mandatory	Type	Description
params	Yes	params object	Pipeline parameters.

Table 4-254 params

Parameter	Mandatory	Type	Description
git_type	Yes	String	Git repository type.
codehub_id	Yes	String	Repo repository ID.
default_branch	Yes	String	Default branch.
git_url	Yes	String	URL for downloading a Git repository.
alias	No	String	Repository alias.
endpoint_id	No	String	Endpoint ID.
build_params	Yes	build_params object	Build parameter.

Table 4-255 build_params

Parameter	Mandatory	Type	Description
build_type	Yes	String	Build type.
event_type	Yes	String	Event type.
target_branch	Yes	String	Target branch.
tag	No	String	Tag name.

Table 4-256 variables

Parameter	Mandatory	Type	Description
name	No	String	Parameter name.
sequence	No	Integer	Parameter No.
type	No	String	Parameter type.
value	No	String	Parameter value.
is_secret	No	Boolean	Whether the parameter is private or not.

Parameter	Mandatory	Type	Description
description	No	String	Description.
is_runtime	No	Boolean	Whether the parameter can be set during runtime.
limits	No	Array of strings	Parameter limitations.
is_reset	No	Boolean	Reset or not.
latest_value	No	String	Value of the latest run.
required	No	Boolean	Required or not.
variableGroup Name	No	String	Parameter group name.

Response Parameters

Status code: 200

Table 4-257 Response body parameters

Parameter	Type	Description
pipeline_run_id	String	Definition: Pipeline run ID. The return value of the API for starting a pipeline is the pipeline run ID. Value range: The value consists of 32 characters, including only digits and letters.

Example Requests

```
POST https://(endpoint)/v5/db8d07265e24426598b3eb03a7818972/api/pipelines/  
d7013d2402ff4cc88489ee5af324e049/pipeline-runs/6d65dd0bc411451b8fb70e8535eda3d8/rollback-run
```

```
{  
  "sources" : [ {  
    "type" : "code",  
    "params" : {  
      "git_type" : "codehub",  
      "codehub_id" : "123456",  
      "default_branch" : "master",  
      "git_url" : "https://0001.git",  
      "alias" : "",  
      "endpoint_id" : "",  
      "build_params" : {  
        "build_type" : "branch",  
        "event_type" : "Manual",  
        "target_branch" : "master",  
        "tag" : null
```

```
    }  
  },  
  },  
  "description": "",  
  "variables": [ {  
    "name": "1",  
    "sequence": 1,  
    "type": "string",  
    "value": "1",  
    "is_secret": false,  
    "description": "",  
    "is_runtime": false,  
    "limits": [ ],  
    "is_reset": false,  
    "latest_value": "",  
    "required": true,  
    "variableGroupName": null  
  }, {  
    "name": "2",  
    "sequence": 2,  
    "type": "string",  
    "value": "2",  
    "is_secret": false,  
    "description": "",  
    "is_runtime": false,  
    "limits": [ ],  
    "is_reset": false,  
    "latest_value": "",  
    "required": true,  
    "variableGroupName": null  
  } ],  
  "choose_jobs": [ "Task_1" ],  
  "choose_stages": [ "state_4" ]  
}
```

Example Responses

Status code: 200

Response body.

```
{  
  "pipeline_run_id": "d5e642b122fd453dbaff21d90dee5ac1"  
}
```

Status Codes

Status Code	Description
200	Response body.

Error Codes

See [Error Codes](#).

4.2.50 Obtaining the Step Redirection Link

Function

This API is used to obtain the step redirection link.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v5/{project_id}/api/pipelines/{pipeline_id}/pipeline-runs/{pipelineRunId}/jobs/{jobRunId}/steps/{stepRunId}/jump-link

Table 4-258 Path Parameters

Parameter	Mandatory	Type	Description
pipelineRunId	Yes	String	Definition: Pipeline run ID. The return value of the API for starting a pipeline is the pipeline run ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
jobRunId	Yes	String	Definition: Pipeline job ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
stepRunId	Yes	String	Definition: Pipeline step ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-259 Response body parameters

Parameter	Type	Description
jumpLink	String	Definition: Step redirection link. Value range: N/A

Example Requests

```
GET https://(endpoint)/v5/071112d87d3e4ed49130c691936202e9/api/pipelines/  
53acae73a3f44b2994f9b20a710721c6/pipeline-runs/13a48f79f7104f9785720cf2c11890ba/jobs/  
6fd4c34e7b7447c59cbe5762bb3273aa/steps/9fdb1e70927b46708b1870192c9d47e5/jump-link
```

Example Responses

Status code: 200

Response body.

```
{  
  "jumpLink" : "/cloudtestportal/project/071112d87d3e4ed49130c691936202e9/testsuite?  
type=1&suite_id=123&detail=result&taskId=456"  
}
```

Status Codes

Status Code	Description
200	Response body.

Error Codes

See [Error Codes](#).

4.2.51 Querying the Running Changes in a Pipeline

Function

This API is used to query the running changes in a pipeline.

Calling Method

For details, see [Calling APIs](#).

URI

```
GET /v5/{project_id}/api/pipelines/{pipeline_id}/pipeline-runs/{pipelineRunId}/  
query-change-requests
```

Table 4-260 Path Parameters

Parameter	Mandatory	Type	Description
pipelineRunId	Yes	String	Definition: Pipeline run ID. The return value of the API for running a pipeline is the pipeline run ID. Constraints: N/A Value range: The value consists of 32 characters, including only digits and letters. Default value: N/A
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Table 4-261 Query Parameters

Parameter	Mandatory	Type	Description
component_id	No	String	Definition: Pipeline microservice ID. Obtain the ID by calling the API for querying microservices . data.id indicates the microservice ID. Constraints: N/A Value range: The value consists of 32 characters, including only digits and letters. Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-262 Response body parameters

Parameter	Type	Description
[items]	Array of QueryPipelineRunChangeRequestsResp objects	Definition: Response body details. Value range: N/A

Table 4-263 QueryPipelineRunChangeRequestsResp

Parameter	Type	Description
id	String	Definition: Change ID. Value range: The value consists of 32 characters, including digits and letters.

Parameter	Type	Description
component_id	String	Definition: Microservice ID. Value range: The value consists of 32 characters, including digits and letters.
status	String	Definition: Change status. Value range: N/A
title	String	Definition: Change title. Value range: N/A
creator_id	String	Definition: Change creator ID. Value range: The value consists of 32 characters, including digits and letters.
creator_name	String	Definition: Change creator name. Value range: N/A
create_time	String	Definition: Time when the change was created. Value range: N/A
repos	Array of strings	Definition: Code repository associated with the change. Value range: N/A

Example Requests

```
GET https://(endpoint)/v5/e2e18230a85d4d6ab0b56cb6d2246c18/api/pipelines/771d3f5473404676872467e230289ebe/pipeline-runs/76711eae71644c38a235b77365d57845/query-change-requests?component_id=c1de96a98c084a0b8631f9e6ac8967b0
```

Example Responses

Status code: 200

OK

```
[ {
  "id" : "211847a825754f2eadfa326c77fd4e9e",
  "component_id" : "c1de96a98c084a0b8631f9e6ac8967b0",
  "status" : "revoked",
  "title" : "0328",
  "creator_id" : "05d8ca972f114765a8984795a8aa4d41",
  "creator_name" : "123",
  "create_time" : "1711613423",
  "repos" : [ ]
}]
```

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.2.52 Querying Available Predefined Parameters

Function

This API is used to query available predefined parameters.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v5/{project_id}/api/pipelines/{pipeline_id}/list-system-vars

Table 4-264 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-265 Response body parameters

Parameter	Type	Description
[items]	Array of ListPipelineSystemVarsResp objects	Definition: Response body details. Value range: N/A

Table 4-266 ListPipelineSystemVarsResp

Parameter	Type	Description
name	String	Definition: Parameter name. Value range: N/A
value	String	Definition: Parameter value. Value range: N/A
type	String	Definition: Parameter type. Value range: N/A
description	String	Definition: Parameter description. Value range: N/A
isShow	Boolean	Definition: Display or not. Value range: • true: display. • false: not display.
ordinal	Integer	Definition: Sequence number of a parameter. Value range: N/A

Parameter	Type	Description
isAlias	Boolean	Definition: Parameter alias. Value range: N/A
kind	String	Definition: Context type of a parameter. Value range: N/A
contextName	String	Definition: Context name. Value range: N/A
sourceIdentifier	String	Definition: Parameter identifier. Value range: N/A

Example Requests

```
GET https://{endpoint}/v5/e2e18230a85d4d6ab0b56cb6d2246c18/api/pipelines/  
0747d5a7099e45f69dc1d099945909a9/list-system-vars
```

Example Responses

None

Status Codes

Status Code	Description
200	Response body.

Error Codes

See [Error Codes](#).

4.2.53 Querying Pipeline Triggering Failure Records

Function

This API is used to query pipeline triggering failure records.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v5/{project_id}/api/pipelines/{pipeline_id}/trigger-failed-record

Table 4-267 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Table 4-268 Query Parameters

Parameter	Mandatory	Type	Description
offset	Yes	Long	Offset.
limit	Yes	Long	Number of records on each page.

Request Parameters

None

Response Parameters

Status code: 200

Table 4-269 Response body parameters

Parameter	Type	Description
offset	Integer	Offset.
limit	Integer	Number of records on each page.
total	Integer	Definition: Total number of items. Value range: The value is no less than 0.
triggerFailedRecordVOS	Array of triggerFailedRecordVOS objects	Details list.

Table 4-270 triggerFailedRecordVOS

Parameter	Type	Description
pipeline_id	String	Pipeline ID.
trigger_time	Integer	Trigger time.
trigger_type	String	Trigger type.
executor_id	String	Executor ID.
executor_name	String	Executor name.
reason	String	Cause of trigger failure.

Example Requests

```
GET https://(endpoint)/v5/e2e18230a85d4d6ab0b56cb6d2246c18/api/pipelines/  
dc73b5ed58a64ab7a469b9480e5f6632/trigger-failed-record?offset=0&limit=10
```

Example Responses

Status code: 200

Response body.

```
{  
  "offset" : 0,
```

```
"limit" : 10,
"total" : 3,
"triggerFailedRecordVOS" : [ {
  "pipeline_id" : "dc73b5ed58a64ab7a469b9480e5f6632",
  "trigger_time" : 1718956712000,
  "trigger_type" : "Push",
  "executor_id" : "123456",
  "executor_name" : "12-5",
  "reason" : "Trigger branch is not whitelisted"
}, {
  "pipeline_id" : "dc73b5ed58a64ab7a469b9480e5f6632",
  "trigger_time" : 1718956668000,
  "trigger_type" : "Push",
  "executor_id" : "456",
  "executor_name" : "456-5",
  "reason" : "Trigger branch is not whitelisted"
}, {
  "pipeline_id" : "dc73b5ed58a64ab7a469b9480e5f6632",
  "trigger_time" : 1718956660000,
  "trigger_type" : "Push",
  "executor_id" : "789",
  "executor_name" : "78-5",
  "reason" : "Trigger branch is not whitelisted"
} ]
}
```

Status Codes

Status Code	Description
200	Response body.

Error Codes

See [Error Codes](#).

4.2.54 Querying the Pipeline Editing History

Function

This API is used to query the pipeline editing history.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v5/{project_id}/api/pipelines/{pipeline_id}/pipelines-modify-historys

Table 4-271 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Table 4-272 Query Parameters

Parameter	Mandatory	Type	Description
offset	Yes	Long	Offset.
limit	Yes	Long	Number of records on each page.

Request Parameters

None

Response Parameters

Status code: 200

Table 4-273 Response body parameters

Parameter	Type	Description
data	Array of data objects	Details list.
count	Integer	Definition: Total number of items. Value range: The value is no less than 0 .

Table 4-274 data

Parameter	Type	Description
creator_name	String	Name of the editor.
creator_nick_name	String	Nickname of the editor.
create_time	Integer	Creation time.
modify_type	String	Edit type.

Example Requests

```
GET https://(endpoint)/v5/e2e18230a85d4d6ab0b56cb6d2246c18/api/pipelines/  
dc73b5ed58a64ab7a469b9480e5f6632/pipelines-modify-historys?offset=0&limit=10
```

Example Responses

Status code: 200

Response body.

```
{  
  "data" : [ {  
    "creator_name" : "456",  
    "creator_nick_name" : "45-5",  
    "create_time" : 1718956700000,  
    "modify_type" : "edit"  
  }, {  
    "creator_name" : "456",  
    "creator_nick_name" : "12-5",  
    "create_time" : 1718956641000,  
    "modify_type" : "edit"  
  } ],  
  "count" : 7  
}
```

Status Codes

Status Code	Description
200	Response body.

Error Codes

See [Error Codes](#).

4.2.55 Creating a Parameter Group

Function

This API is used to create a parameter group.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v5/{project_id}/api/pipeline/variable/group/create

Table 4-275 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-276 Request body parameters

Parameter	Mandatory	Type	Description
projectId	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
name	Yes	String	Definition: Parameter group name. Constraints: N/A Value range: N/A Default value: N/A
description	No	String	Definition: Description details. Constraints: N/A Value range: N/A Default value: N/A
variables	No	Array of variables objects	Definition: Parameter list. Constraints: N/A Value range: N/A Default value: N/A

Table 4-277 variables

Parameter	Mandatory	Type	Description
sequence	No	Integer	Definition: Sequence number of a parameter. Constraints: N/A Value range: N/A Default value: N/A
name	No	String	Definition: Parameter name. Constraints: N/A Value range: N/A Default value: N/A
type	No	String	Definition: Parameter type. Constraints: N/A Value range: N/A Default value: N/A
value	No	String	Definition: Default parameter value. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
description	No	String	Definition: Parameter description. Constraints: N/A Value range: N/A Default value: N/A
is_secret	No	Boolean	Definition: Private parameter or not. Constraints: N/A Value range: • true: The parameter is private. • false: The parameter is not private. Default value: N/A

Response Parameters

Status code: 200

Table 4-278 Response body parameters

Parameter	Type	Description
pipeline_variable_group_id	String	Definition: Parameter group ID. Value range: The value consists of 32 characters, including digits and letters.

Example Requests

```
POST https://(endpoint)/v5/e2e18230a85d4d6ab0b56cb6d2246c18/api/pipeline/variable/group/create
{
  "projectId" : "e2e18230a85d4d6ab0b56cb6d2246c18",
  "name" : "213",
  "description" : "",
  "variables" : [ {
```

```
"sequence" : 1,  
"name" : "123",  
"type" : "string",  
"value" : "123",  
"description" : "123",  
"is_secret" : false  
}]  
}
```

Example Responses

Status code: 200

Response body.

```
{  
  "pipeline_variable_group_id" : "66d40ba4e3da4505aaaf7e9de9860b6e"  
}
```

Status Codes

Status Code	Description
200	Response body.

Error Codes

See [Error Codes](#).

4.2.56 Editing a Parameter Group

Function

This API is used to edit a parameter group.

Calling Method

For details, see [Calling APIs](#).

URI

PUT /v5/{project_id}/api/pipeline/variable/group/update

Table 4-279 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-280 Request body parameters

Parameter	Mandatory	Type	Description
projectId	Yes	String	Project ID.
name	Yes	String	Parameter group name.
description	No	String	Description.
variables	No	Array of variables objects	Parameter list.
id	Yes	String	Parameter group ID.

Table 4-281 variables

Parameter	Mandatory	Type	Description
name	No	String	Parameter name.
sequence	No	Integer	Parameter No.
type	No	String	Parameter type.
value	No	String	Default parameter value.
is_secret	No	Boolean	Whether the parameter is private or not.
description	No	String	Description.

Response Parameters

Status code: 200

Table 4-282 Response body parameters

Parameter	Type	Description
success	Boolean	Definition: Whether the operation is successful. Value range: true: The operation is successful. false: The operation fails.

Example Requests

```
PUT https://(endpoint)/v5/e2e18230a85d4d6ab0b56cb6d2246c18/api/pipeline/variable/group/update
{
  "projectId" : "e2e18230a85d4d6ab0b56cb6d2246c18",
  "name" : "2131",
  "description" : "",
  "variables" : [ {
    "name" : "123",
    "sequence" : 1,
    "type" : "string",
    "value" : "123",
    "is_secret" : false,
    "description" : "123"
  } ],
  "id" : "66d40ba4e3da4505aaaf7e9de9860b6e"
}
```

Example Responses

Status code: 200

Response body.

```
{
  "success" : true
}
```

Status Codes

Status Code	Description
200	Response body.

Error Codes

See [Error Codes](#).

4.2.57 Deleting a Parameter Group

Function

This API is used to delete a parameter group.

Calling Method

For details, see [Calling APIs](#).

URI

DELETE /v5/{project_id}/api/pipeline/variable/group/delete

Table 4-283 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Table 4-284 Query Parameters

Parameter	Mandatory	Type	Description
id	Yes	String	ID of the parameter group to be deleted.

Request Parameters

Table 4-285 Request body parameters

Parameter	Mandatory	Type	Description
body	Yes	Object	Request body.

Response Parameters

Status code: 200

Table 4-286 Response body parameters

Parameter	Type	Description
success	Boolean	Definition: Whether the operation is successful. Value range: true: The operation is successful. false: The operation fails.

Example Requests

```
DELETE https://(endpoint)/v5/e2e18230a85d4d6ab0b56cb6d2246c18/api/pipeline/variable/group/delete?
id=66d40ba4e3da4505aaaf7e9de9860b6e
{ }
```

Example Responses

Status code: 200

Response body.

```
{
  "success" : true
}
```

Status Codes

Status Code	Description
200	Response body.

Error Codes

See [Error Codes](#).

4.2.58 Associating a Pipeline with a Parameter Group

Function

This API is used to associate a pipeline with a parameter group.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v5/{project_id}/api/pipeline/variable/group/relation

Table 4-287 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-288 Request body parameters

Parameter	Mandatory	Type	Description
pipeline_id	Yes	String	Pipeline ID.
pipeline_group_ids	Yes	Array of strings	Parameter group ID list.

Response Parameters

Status code: 200

Table 4-289 Response body parameters

Parameter	Type	Description
success	Boolean	Definition: Whether the operation is successful. Value range: • true: The operation is successful. • false: The operation fails.

Example Requests

```
POST https://{endpoint}/v5/e2e18230a85d4d6ab0b56cb6d2246c18/api/pipeline/variable/group/relation
{
  "pipeline_id" : "0747d5a7099e45f69dc1d099945909a9",
  "pipeline_group_ids" : [ "e9b95653dd854146b9ff48d33c2d9d66" ]
}
```

Example Responses

Status code: 200

Response body.

```
{
  "success" : true
}
```

Status Codes

Status Code	Description
200	Response body.

Error Codes

See [Error Codes](#).

4.2.59 Querying Details About a Parameter Group

Function

This API is used to query details about a parameter group.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v5/{project_id}/api/pipeline/variable/group/{id}

Table 4-290 Path Parameters

Parameter	Mandatory	Type	Description
id	Yes	String	Definition: Parameter group ID. Constraints: N/A Value range: N/A Default value: N/A
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-291 Response body parameters

Parameter	Type	Description
id	String	Definition: Parameter group name. Value range: N/A
project_id	String	Definition: Project name. Value range: N/A

Parameter	Type	Description
domain_id	String	Definition: Tenant ID. Value range: The value consists of 32 characters, including digits and letters.
name	String	Definition: Parameter group name. Value range: N/A
description	String	Definition: Parameter group description. Value range: N/A
variables	Array of variables objects	Definition: Parameter list. Value range: N/A
related_pipelines	Array of related_pipelines objects	Definition: Associated pipeline. Value range: N/A
creator_id	String	Definition: Creator ID. Value range: The value consists of 32 characters, including digits and letters.
updater_id	String	Definition: Editor ID Value range: The value consists of 32 characters, including digits and letters.
creator_name	String	Definition: Creator name. Value range: N/A

Parameter	Type	Description
updater_name	String	Definition: Editor name. Value range: N/A
create_time	Integer	Definition: Creation time. Value range: N/A
update_time	Integer	Definition: Update time. Value range: N/A

Table 4-292 variables

Parameter	Type	Description
name	String	Definition: Parameter name. Value range: N/A
sequence	Integer	Definition: Sequence number of a parameter. Value range: N/A
type	String	Definition: Parameter type. Value range: N/A
value	String	Definition: Default parameter value. Value range: N/A

Parameter	Type	Description
is_secret	Boolean	Definition: Whether the parameter is private. Value range: • true: The parameter is private. • false: The parameter is not private.
description	String	Definition: Description. Value range: N/A

Table 4-293 related_pipelines

Parameter	Type	Description
id	String	Definition: Pipeline ID. Value range: The value consists of 32 characters, including digits and letters.
name	String	Definition: Pipeline name. Value range: N/A

Example Requests

```
GET https://(endpoint)/v5/e2e18230a85d4d6ab0b56cb6d2246c18/api/pipeline/variable/group/
e9b95653dd854146b9ff48d33c2d9d66
```

Example Responses

Status code: 200

Response body.

```
{
  "id": "e9b95653dd854146b9ff48d33c2d9d66",
  "project_id": "e2e18230a85d4d6ab0b56cb6d2246c18",
  "domain_id": "4b267c81b33648d982e5c2067e4c77b9",
  "name": "121212",
  "description": "",
  "variables": [ {
    "name": "12",
    "sequence": 1,
    "type": "string",
    "value": "12",
```

```
{
  "is_secret" : false,
  "description" : ""
},
"related_pipelines" : [ {
  "id" : "0747d5a7099e45f69dc1d099945909a9",
  "name" : "cloudtest"
} ],
"creator_id" : "05d8ca972f114765a8984795a8aa4d41",
"updater_id" : "05d8ca972f114765a8984795a8aa4d41",
"creator_name" : "12-5",
"updater_name" : "12-5",
"create_time" : 1718957748000,
"update_time" : 1718958969000
}
```

Status Codes

Status Code	Description
200	Response body.

Error Codes

See [Error Codes](#).

4.2.60 Querying Parameter Groups Associated with a Pipeline

Function

This API is used to query parameter groups associated with a pipeline.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v5/{project_id}/api/pipeline/variable/group/pipeline

Table 4-294 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Table 4-295 Query Parameters

Parameter	Mandatory	Type	Description
pipelineId	Yes	String	Pipeline ID.

Request Parameters

None

Response Parameters

Status code: 200

Table 4-296 Response body parameters

Parameter	Type	Description
id	String	Parameter group ID.
project_id	String	Project ID.
domain_id	String	Tenant ID.
name	String	Parameter group name.
description	String	Description.
variables	Array of strings	Parameter list.
related_pipelines	String	Associated pipeline ID.
creator_id	String	Creator ID.

Parameter	Type	Description
updater_id	String	Updater ID.
creator_name	String	Creator name.
updater_name	String	Updater name.
create_time	Integer	Creation time.
update_time	Integer	Update time.

Example Requests

GET https://(endpoint)/v5/e2e18230a85d4d6ab0b56cb6d2246c18/api/pipeline/variable/group/pipeline?pipelineId=dc73b5ed58a64ab7a469b9480e5f6632

Example Responses

Status code: 200

Response body.

```
{
  "id": "e9b95653dd854146b9ff48d33c2d9d66",
  "project_id": "e2e18230a85d4d6ab0b56cb6d2246c18",
  "domain_id": "4b267c81b33648d982e5c2067e4c77b9",
  "name": "121212",
  "description": "",
  "variables": [ {
    "name": "12",
    "sequence": 1,
    "type": "string",
    "value": "12",
    "is_secret": false,
    "description": ""
  } ],
  "related_pipelines": null,
  "creator_id": "1212",
  "updater_id": "1212",
  "creator_name": "12-5",
  "updater_name": "12-5",
  "create_time": 1718957748000,
  "update_time": 1718958969000
}
```

Status Codes

Status Code	Description
200	Response body.

Error Codes

See [Error Codes](#).

4.2.61 Querying the Parameter Group List

Function

This API is used to query the parameter group list.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v5/{project_id}/api/pipeline/variable/group/list

Table 4-297 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-298 Request body parameters

Parameter	Mandatory	Type	Description
offset	Yes	Long	Offset.
limit	Yes	Long	Number of records on each page.
name	No	String	Fuzzy search by name.

Response Parameters

Status code: 200

Table 4-299 Response body parameters

Parameter	Type	Description
pipeline_variable_groups	Array of pipeline_variable_groups objects	Details list.
offset	Integer	Offset.
limit	Integer	Number of records on each page.
total	Integer	Definition: Total number of items. Value range: The value is no less than 0 .

Table 4-300 pipeline_variable_groups

Parameter	Type	Description
id	String	Parameter group ID.
project_id	String	Project ID.
domain_id	String	Tenant ID.
name	String	Parameter group name.
description	String	Description.
variables	Array of strings	Parameter list.
related_pipelines	Array of related_pipelines objects	Associated pipeline.
creator_id	String	Creator ID.
updater_id	String	Updater ID.
creator_name	String	Creator name.
updater_name	String	Updater name.
create_time	Integer	Creation time.
update_time	Integer	Update time.

Table 4-301 related_pipelines

Parameter	Type	Description
id	String	Pipeline ID.

Parameter	Type	Description
name	String	Pipeline name.

Example Requests

POST https://(endpoint)/v5/e2e18230a85d4d6ab0b56cb6d2246c18/api/pipeline/variable/group/list

```
{
  "offset" : 0,
  "limit" : 10,
  "name" : ""
}
```

Example Responses

Status code: 200

Response body.

```
{
  "pipeline_variable_groups": [ {
    "id": "e9b95653dd854146b9ff48d33c2d9d66",
    "project_id": "e2e18230a85d4d6ab0b56cb6d2246c18",
    "domain_id": "4b267c81b33648d982e5c2067e4c77b9",
    "name": "121212",
    "description": "",
    "variables": [ ],
    "related_pipelines": [ {
      "id": "0747d5a7099e45f69dc1d099945909a9",
      "name": "cloudtest"
    }, {
      "id": "dc73b5ed58a64ab7a469b9480e5f6632",
      "name": "PY3-0401-pipeline"
    } ],
    "creator_id": "05d8ca972f114765a8984795a8aa4d41",
    "updater_id": "05d8ca972f114765a8984795a8aa4d41",
    "creator_name": "north-5",
    "updater_name": "north-5",
    "create_time": 1718957748000,
    "update_time": 1718958969000
  } ],
  "offset": 0,
  "limit": 10,
  "total": 1
}
```

Status Codes

Status Code	Description
200	Response body.

Error Codes

See [Error Codes](#).

4.2.62 Obtaining Webhook Information

Function

This API is used to obtain webhook information.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v5/{project_id}/api/pipelines/{pipeline_id}/webhook

Table 4-302 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-303 Response body parameters

Parameter	Type	Description
pipelineId	String	Definition: Pipeline ID. Value range: The value consists of 32 characters, including digits and letters.
projectId	String	Definition: Project ID. Value range: The value consists of 32 characters, including digits and letters.
region	String	Definition: Region. Value range: N/A
status	Boolean	Definition: Webhook status. Value range: • true: enabled. • false: disabled.
useIam	Boolean	Definition: Whether to use IAM. Value range: • true: IAM is used. • false: IAM is not used.
webhookUrl	String	Definition: Webhook address. Value range: N/A

Example Requests

```
GET https://{endpoint}/v5/0b015e21d3054a3fb03839c43b7cd034/pipelines/  
12780316f8ca4d8c86bee1bcf24691be/webhook
```

Example Responses

Status code: 200

ok

```
{  
  "pipelineId" : "36dd030a69324d489e4241db387acbfd",  
  "projectId" : "4fd6dac138aa4d4d965140a19b26a810",  
  "region" : "{region}",  
  "status" : true,  
  "uselam" : false,  
  "webhookUrl" : "https://wxample.com/v5/4fd6dac138aa4d4d965140a19b26a810/pipelines/  
36dd030a69324d489e4241db387acbfd/webhook/callback-run/{region}?  
access_token=c60d5a520b2a42a1afb1c07ec0666e49"  
}
```

Status Codes

Status Code	Description
200	ok

Error Codes

See [Error Codes](#).

4.2.63 Triggering a Pipeline with a Webhook

Function

This API is used to trigger a pipeline with a webhook.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v5/{projectId}/pipelines/{pipelineId}/callback-run/{region}

Table 4-304 Path Parameters

Parameter	Mandatory	Type	Description
projectId	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipelineId	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
region	Yes	String	Definition: Project region information. Constraints: N/A Value range: N/A Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-305 Response body parameters

Parameter	Type	Description
pipeline_run_id	String	Definition: Pipeline run ID. Value range: The value consists of 32 characters, including only digits and letters.

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.2.64 Deleting the Running Details of a GitCode Pipeline

Function

This API is used to delete the running details of a GitCode pipeline.

Calling Method

For details, see [Calling APIs](#).

URI

DELETE /v6/{domain_id}/api/pac/pipelines/actions/{pipeline_id}/{pipeline_run_id}

Table 4-306 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including only digits and letters. Default value: N/A
pipeline_run_id	Yes	String	Definition: Pipeline run ID. The return value of the API for running a pipeline is the pipeline run ID. Constraints: N/A Value range: The value consists of 32 characters, including only digits and letters. Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-307 Response body parameters

Parameter	Type	Description
[items]	Array of ActionsPipelineCommonVO objects	Definition: Result of deleting the GitCode pipeline running details. Value range: N/A

Table 4-308 ActionsPipelineCommonVO

Parameter	Type	Description
success	Boolean	Definition: Whether the calling is successful. Value range: • true: The calling is successful. • false: The calling fails.

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.2.65 Querying All GitCode Pipelines

Function

This API is used to query all GitCode pipelines.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v3/{domain_id}/actions/all

Table 4-309 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Table 4-310 Query Parameters

Parameter	Mandatory	Type	Description
offset	Yes	Integer	Definition: Offset where the query starts. Constraints: N/A Value range: The offset value must be no less than 0. Default value: N/A

Parameter	Mandatory	Type	Description
limit	Yes	Integer	Definition: Number of records of each query. Constraints: N/A Value range: The value is no less than 0. Default value: N/A
name	No	String	Definition: Pipeline name. Constraints: N/A Value range: N/A Default value: N/A
type	No	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-311 Response body parameters

Parameter	Type	Description
full_stage_plugins_item_list	Array of full_stage_plugins_item_list objects	Definition: Result set. Value range: N/A

Table 4-312 full_stage_plugins_item_list

Parameter	Type	Description
plugins_list	Array of plugins_list objects	Definition: Extension list. Value range: N/A
display_name	String	Definition: Displayed extension name. Value range: N/A
business_type	String	Definition: Extension service type. Value range: N/A
unique_id	String	Definition: Extension ID. Default value: N/A
conditions	Array of strings	Definition: Running conditions. Value range: N/A
addables	Array of addables objects	Definition: Additional attribute. Value range: N/A

Parameter	Type	Description
editable	Boolean	Definition: Editable parameter or not. Value range: • true: editable. • false: not editable.
removable	Boolean	Definition: Removable or not. Value range: • true: removable. • false: not removable.
cloneable	Boolean	Definition: Whether the extension can be cloned. Value range: • true: The extension can be cloned. • false: The extension cannot be cloned.
disabled	Boolean	Definition: Disabled or not. Value range: • true: disabled. • false: not disabled.

Table 4-313 plugins_list

Parameter	Type	Description
unique_id	String	Definition: ID. Value range: N/A
display_name	String	Definition: Display name. Value range: N/A

Parameter	Type	Description
plugin_name	String	Definition: Extension name. Value range: N/A
disabled	Boolean	Definition: Whether the current extension is disabled for subsequent pipelines. The default value is false . Value range: • true: disabled. • false: not disabled.
db_record_name	String	Definition: Display name of an extension record. Value range: N/A
group_name	String	Definition: Name of the group in a pipeline stage. Value range: N/A
group_type	String	Definition: Group type in a pipeline stage. Value range: N/A
plugin_attribution	String	Definition: Whether the extension is an official one. Value range: N/A
plugin_composition_type	String	Definition: Whether a group consists of multiple steps. Value range: • single: single-step extension. • multi: multi-step extension.

Parameter	Type	Description
runtime_attribute	String	Definition: Running attribute. Value range: • agent: Pipeline agent is required for running. • agentLess: No pipeline agent is required.
all_steps	Array of all_steps objects	Definition: Basic extension list. Value range: N/A
description	String	Definition: Extension description. Value range: N/A
version_attribute	String	Definition: Whether it is a draft extension. Value range: N/A
icon_url	String	Definition: Extension icon URL. Value range: N/A
multi_step_editable	Integer	Definition: Whether steps can be added. The default value is 1 , indicating that steps can be added. Value range: • 0: The steps cannot be added. • 1: You can continue to add steps.
location	String	Definition: Usage position. Value range: N/A

Parameter	Type	Description
publisher_unique_id	String	Definition: Publisher ID. Value range: N/A
manifest_version	String	Definition: Extension version identifier. Value range: N/A
standard	Boolean	Definition: Whether the extension is standardized. Value range: • true: The extension is standardized. • false: The extension is not standardized.

Table 4-314 all_steps

Parameter	Type	Description
plugin_name	String	Definition: Extension name. Value range: N/A
display_name	String	Definition: Displayed extension name. Value range: N/A
version	String	Definition: Extension version number. Value range: N/A

Table 4-315 addables

Parameter	Type	Description
additionalProp1	Boolean	Definition: Additional attribute 1. Value range: N/A
additionalProp2	Boolean	Definition: Additional attribute 2. Value range: N/A
additionalProp3	Boolean	Definition: Additional attribute 3. Value range: N/A

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.2.66 Triggering a Pipeline with a Webhook

Function

This API is used to trigger a pipeline with a webhook.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v5/{projectId}/pipelines/{pipelineId}/webhook/callback-run/{region}

Table 4-316 Path Parameters

Parameter	Mandatory	Type	Description
region	Yes	String	Definition: Region. Constraints: N/A Value range: N/A Default value: N/A
projectId	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipelineId	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including only digits and letters. Default value: N/A

Table 4-317 Query Parameters

Parameter	Mandatory	Type	Description
access_token	No	String	Definition: Authentication token. Constraints: N/A Value range: N/A Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-318 Response body parameters

Parameter	Type	Description
pipeline_run_id	String	Definition: Pipeline run ID. Value range: The value consists of 32 characters, including only digits and letters.

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.2.67 Enabling or Disabling the Webhook Function

Function

This API is used to enable or disable the webhook function.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v5/{project_id}/api/pipelines/{pipeline_id}/webhook/switch

Table 4-319 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including only digits and letters. Default value: N/A

Request Parameters

Table 4-320 Request body parameters

Parameter	Mandatory	Type	Description
webhook_switch	Yes	Boolean	Definition: Whether to enable the webhook function. Constraints: N/A Value range: • true: The webhook function is enabled. • false: The webhook function is disabled. Default value: N/A
use_iam	Yes	Boolean	Definition: Whether to use IAM authentication. Constraints: N/A Value range: • true: IAM authentication is used. • false: IAM authentication is not used. Default value: N/A

Response Parameters

Status code: 200**Table 4-321** Response body parameters

Parameter	Type	Description
status	String	Definition: Returned status. Value range: N/A

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.2.68 Running a YAML-based Pipeline Using YAML

Function

This API is used to run a YAML-based pipeline in dry-run mode using YAML.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v5/{project_id}/api/pac/pipelines/dry-run

Table 4-322 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-323 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A
X-Language	No	String	Definition: Language type. Constraints: N/A Value range: • zh-cn: Chinese. • en-us: English. Default value: en-us .

Table 4-324 Request body parameters

Parameter	Mandatory	Type	Description
repository	Yes	Repository object	Definition: Code repository information. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
description	No	String	Definition: Pipeline running description. Constraints: N/A Value range: N/A Default value: N/A
configuration	Yes	String	Definition: YAML content. Constraints: N/A Value range: N/A Default value: N/A

Table 4-325 Repository

Parameter	Mandatory	Type	Description
type	Yes	String	Definition: Code repository type. Constraints: N/A Value range: • CodeArts Repo. • Gitee. • GitHub. • GitCode. • GitLab. Default value: N/A

Parameter	Mandatory	Type	Description
git_http_url	Yes	String	Definition: HTTPS address of the code repository. Constraints: N/A Value range: N/A Default value: N/A
branch	Yes	String	Definition: Code repository branch. Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-326 Response body parameters

Parameter	Type	Description
pipeline_id	String	ID of the pipeline temporarily created during a dry-run execution.
pipeline_run_id	String	Pipeline run ID.

Example Requests

POST https://{endpoint}/v5/6428c2e2b4b64affa14ec80896695c49/api/pac/pipelines/dry-run

Example Responses

None

Status Codes

Status Code	Description
200	Response body for running a YAML-based pipeline in dry-run mode.
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.2.69 Obtaining Pipeline Details

Function

This API is used to obtain pipeline execution details.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v3/pipelines/{pipeline_id}/detail

Table 4-327 Path Parameters

Parameter	Mandatory	Type	Description
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including only digits and letters. Default value: N/A

Table 4-328 Query Parameters

Parameter	Mandatory	Type	Description
build_id	No	String	Definition: Pipeline execution ID. Constraints: N/A Value range: N/A Default value: N/A

Request Parameters

Table 4-329 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A
X-Language	No	String	Definition: Language type. Constraints: N/A Value range: • zh-cn: Chinese. • en-us: English. Default value: en-us .

Response Parameters

Status code: 200

Table 4-330 Response body parameters

Parameter	Type	Description
workflow	PipelineWorkflowDetail object	Pipeline workflow details.
states	Array of PipelineStateDetail objects	Pipeline basic information.

Table 4-331 PipelineWorkflowDetail

Parameter	Type	Description
pipeline_id	String	Pipeline ID.
pipeline_name	String	Pipeline name.
project_id	String	ID of the project to which the pipeline belongs.
project_name	String	Name of the project to which the pipeline belongs.
build_id	String	Pipeline execution ID.
status	String	Pipeline status. The value can be waiting , running , verifying , suspending , or completed .
outcome	String	Pipeline execution result. The value can be success , error , or aborted .
start_time	String	Execution start time.
end_time	String	Execution end time.
elapsed_time	String	Execution duration, in milliseconds.
execute_type	String	Triggering mode. The options are as follows: MR: triggered by an MR event; Push: triggered by code commit; CreateTag: triggered by tag creation; Issue: triggered by a repository issue event; Note: triggered by a repository note event; Manual: manually triggered; Scheduler: triggered by a scheduled task; RollBack: rollback execution; Unsuspended: suspension cancellation.

Parameter	Type	Description
executor_id	String	Executor ID.
executor	String	Executor.
detail_url	String	URL of the pipeline details.
parameters	Array of PipelineParameterDetail objects	Pipeline parameters.
source	Array of PipelineSourceDetail objects	Source code information.
artifact_sources	Array of PipelineArtifactDetail objects	Artifact source information.

Table 4-332 PipelineParameterDetail

Parameter	Type	Description
name	String	Parameter name.
value	String	Parameter value.
type	String	Parameter type. The value can be text, enum, autoGrowth, or hostGroup.
is_system	Boolean	Whether it is a system parameter.
is_runtime	Boolean	Whether to enable the runtime setting.
is_secret	Boolean	Whether it is a private parameter.

Table 4-333 PipelineSourceDetail

Parameter	Type	Description
scm_type	String	Repository type. The value can be Repo, Gitee, GitHub, or general_Git.
endpoint_id	String	Code source endpoint.
repo_id	String	Code repository ID.
repo_name	String	Code repository name.
repo_owner	String	Owner.
display_name	String	Name of the code repository.

Parameter	Type	Description
git_url	String	Code repository address.
default_branch	String	Default branch.
build_params	PipelineSourceBuildParameters object	Build parameter details.

Table 4-334 PipelineSourceBuildParameters

Parameter	Type	Description
tag	String	Build tag.
commit_id	String	Build commit ID.
event_type	String	Triggering mode. The options are as follows: MR: triggered by an MR event; Push: triggered by code commit; CreateTag: triggered by tag creation; Issue: triggered by a repository issue event; Note: triggered by a repository note event; Manual: manually triggered; Scheduler: triggered by a scheduled task; RollBack: rollback execution; Unsuspended: suspension cancellation.
build_type	String	Code repository build type. The value can be branch or tag.
message	String	Information about the execution in the code repository.
action	String	action
merge_id	String	merge_id
source_branch	String	Source branch. If the execution is not triggered by an MR, the value is null.
target_branch	String	Target branch. If the execution is not triggered by an MR, the value is the branch selected for this execution.

Table 4-335 PipelineArtifactDetail

Parameter	Type	Description
source_system	String	Pipeline source type. The value is CloudArtifact, indicating the artifact source.
artifact_type	String	Artifact source type. The options can be generic (software release repo), docker (Docker repository).
artifact_type_name	String	Artifact source name.
alias	String	Deployment source alias.
properties	Object	Deployment source configuration.
build_params	PipelineArtifact-BuildParameters object	Build parameters of the artifact source.

Table 4-336 PipelineArtifactBuildParameters

Parameter	Type	Description
execute_version	String	Artifact source version.

Table 4-337 PipelineStateDetail

Parameter	Type	Description
id	String	Stage ID.
name	String	Stage name.
type	String	Node type. The value is stage.
dsl_method	String	Stage type, such as initial and source.
is_manual_execution	Boolean	Whether to manually execute.
start_time	String	Execution start time.
end_time	String	Execution end time.
elapsed_time	String	Execution duration, in seconds.
status	String	Execution status. The value can be waiting, running, verifying, suspending, or completed.

Parameter	Type	Description
outcome	String	Execution result. The value can be success , error , or aborted .
execution_mode	String	Execution mode. The value can be serial or parallel.
children	Array of PipelineTaskDetail objects	Job details.

Table 4-338 PipelineTaskDetail

Parameter	Type	Description
id	String	Job ID.
name	String	Job name.
type	String	Node type, which can be stage or job.
dsl_method	String	Job type.
start_time	String	Execution start time.
end_time	String	Execution end time.
elapsed_time	String	Execution duration, in seconds.
status	String	Execution status. The value can be waiting , running , verifying , suspending , or completed .
outcome	String	Execution result. The value can be success , error , or aborted .
third_task_id	String	Third-party job ID.
third_task_name	String	Third-party job name.
project_id	String	ID of the project to which the job belongs.
third_task_build_number	String	Job build ID.
third_task_daily_build_number	String	Job build ID. This parameter is available only for build jobs.
detail_url	String	Job details link.
error_code	String	Error code.
error_msg	String	Error message.

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.2.70 Running a YAML-based Pipeline

Function

This API is used to run a YAML-based pipeline.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v5/{project_id}/api/pac/pipelines/{pipeline_id}/run

Table 4-339 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . <code>pipelines.pipelineId</code> indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-340 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A
X-Language	No	String	Definition: Language type. Constraints: N/A Value range: • zh-cn: Chinese. • en-us: English. Default value: en-us .

Table 4-341 Request body parameters

Parameter	Mandatory	Type	Description
branch	Yes	String	Definition: Active branch. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
description	No	String	Definition: Running description. Constraints: N/A Value range: N/A Default value: N/A
variables	No	Array of variables objects	Definition: Running parameters. Constraints: N/A Value range: N/A Default value: N/A
choose_jobs	No	Array of strings	Definition: Selected jobs. Constraints: N/A Value range: N/A Default value: N/A

Table 4-342 variables

Parameter	Mandatory	Type	Description
name	No	String	Definition: Parameter name. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
value	No	String	Definition: Parameter value. Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-343 Response body parameters

Parameter	Type	Description
pipeline_run_id	String	Definition: Pipeline run ID. The return value of the API for starting a pipeline is the pipeline run ID. Value range: The value consists of 32 characters, including only digits and letters.

Example Requests

```
POST https://{endpoint}/v5/6428c2e2b4b64affa14ec80896695c49/api/pac/pipelines/  
c23f79a760aa4ad28b98f24e70373c4e/run
```

Example Responses

None

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Forbidden

Status Code	Description
404	Not Found

Error Codes

See [Error Codes](#).

4.2.71 Querying Pipeline Execution Records

Function

This API is used to query pipeline execution records.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v3/pipelines/{pipeline_id}/build-records

Table 4-344 Path Parameters

Parameter	Mandatory	Type	Description
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including only digits and letters. Default value: N/A

Table 4-345 Query Parameters

Parameter	Mandatory	Type	Description
start_date	No	String	Definition: Start date. Constraints: The interval between the start date and end date cannot exceed one month. The start date is included. Value range: N/A Default value: N/A
end_date	No	String	Definition: Start date. Constraints: The interval between the start date and end date cannot exceed one month. The start date is included. Value range: N/A Default value: N/A
offset	No	Integer	Definition: Offset where the query starts. Constraints: N/A Value range: The offset value must be no less than 0. Default value: N/A

Parameter	Mandatory	Type	Description
limit	No	Integer	Definition: Number of records of each query. Constraints: N/A Value range: The value is no less than 0. Default value: N/A
status	No	String	Definition: Pipeline execution status. Constraints: N/A Value range: • waiting: The pipeline is waiting to begin. • running: The pipeline is being executed. • verifying: This pipeline is to be reviewed. • suspending: The pipeline is suspended. • completed: The execution is completed. Default value: N/A
outcome	No	String	Definition: Pipeline execution result. Constraints: N/A Value range: • success: The execution is successful. • error: The execution failed. • aborted: The execution is aborted. Default value: N/A

Request Parameters

Table 4-346 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A
X-Language	No	String	Definition: Language type. Constraints: N/A Value range: • zh-cn: Chinese. • en-us: English. Default value: en-us .

Response Parameters

Status code: 200

Table 4-347 Response body parameters

Parameter	Type	Description
total	Integer	Definition: Total number of items. Value range: N/A

Parameter	Type	Description
records	Array of PipelineBuildRecordInfo objects	Definition: Information of pipeline execution records. Value range: N/A

Table 4-348 PipelineBuildRecordInfo

Parameter	Type	Description
pipeline_id	String	Definition: Pipeline ID. Value range: The value consists of 32 characters, including digits and letters.
pipeline_name	String	Definition: Pipeline name. Value range: N/A
build_id	String	Definition: Execution ID. Value range: N/A
start_time	String	Definition: Start time. Value range: N/A
end_time	String	Definition: End time. Value range: N/A
elapse_time	String	Definition: Execution duration. Value range: N/A

Parameter	Type	Description
execute_type	String	Definition: Job type. Value range: N/A
executor_id	String	Definition: ID of the user who executes the pipeline. Value range: N/A
executor_name	String	Definition: Name of the user who executes the pipeline. Value range: N/A
status	String	Definition: Pipeline status. Value range: N/A
outcome	String	Definition: Pipeline execution result. Value range: N/A

Status code: 400**Table 4-349** Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.2.72 Obtaining the Address for Downloading an Agent

Function

This API is used to obtain the address for downloading an agent.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v5/{project_id}/pipelines/{pipeline_id}/{pipeline_run_id}/{job_run_id}/agent-runs/agent/download

Table 4-350 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipeline_run_id	Yes	String	Definition: Pipeline run ID. The return value of the API for starting a pipeline is the pipeline run ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Parameter	Mandatory	Type	Description
job_run_id	Yes	String	Definition: Job running ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Table 4-351 Query Parameters

Parameter	Mandatory	Type	Description
arch	Yes	String	Definition: CPU architecture of the executor. Constraints: N/A Value range: N/A Default value: N/A
version	Yes	String	Definition: Agent version. Constraints: N/A Value range: N/A Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-352 Response body parameters

Parameter	Type	Description
error	ErrorInfo object	Definition: Error message. Value range: N/A
result	Object	Definition: Error result. Value range: N/A
status	String	Definition: Status value. Value range: N/A

Table 4-353 ErrorInfo

Parameter	Type	Description
code	String	Definition: Error code. Value range: N/A
message	String	Definition: Error message. Value range: N/A

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.2.73 Obtaining All Custom Parameters of a Pipeline of the Old Version

Function

This API is used to obtain all custom parameters of a pipeline of the old version.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v5/{project_id}/api/pipelines/{pipeline_id}/list-pipeline-vars

Table 4-354 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Parameter	Mandatory	Type	Description
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-355 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-356 Response body parameters

Parameter	Type	Description
[items]	Array of customVarVOVO objects	Definition: Custom parameters. Value range: N/A

Table 4-357 customVarVOVO

Parameter	Type	Description
name	String	Definition: Parameter name. Value range: N/A
sequence	Integer	Definition: Parameter ID. Value range: N/A
type	String	Definition: Parameter type. Value range: N/A
value	String	Definition: Parameter value. Value range: N/A
is_secret	Boolean	Definition: Whether the parameter is private. Value range: • true: The parameter is private. • false: The parameter is not private.
description	String	Definition: Parameter description. Value range: N/A

Parameter	Type	Description
is_runtime	Boolean	Definition: Whether a parameter can be set at runtime. Value range: • true: The parameter can be set at runtime. • false: The parameter cannot be set at runtime.
limits	Array of limits objects	Definition: List of limited enumerated values. Value range: N/A
is_reset	Boolean	Definition: Whether an auto-increment parameter is reset. Value range: • true: The parameter is reset. • false: The parameter is not reset.
latest_value	String	Definition: The latest value of an auto-increment parameter. Value range: N/A
required	Boolean	Definition: Mandatory or not. Value range: • true: mandatory. • false: optional.

Table 4-358 limits

Parameter	Type	Description
disable	String	Definition: Enumerated value. Value range: N/A

Parameter	Type	Description
name	String	Definition: Enumerated item name. Value range: N/A
displayname	String	Definition: Enumerated item alias. Value range: N/A

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.2.74 Updating Endpoint Permissions

Function

This API is used to update endpoint permissions.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v1/endpoint/{endpointUuid}/permission

Table 4-359 Path Parameters

Parameter	Mandatory	Type	Description
endpointUuid	Yes	String	Definition: Endpoint UUID. Constraints: N/A Value range: N/A Default value: N/A

Request Parameters

Table 4-360 Request body parameters

Parameter	Mandatory	Type	Description
role_id	No	String	Definition: Role ID. Constraints: N/A Value range: N/A Default value: N/A
permission_type	No	String	Definition: Permission type. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
value	No	Boolean	Definition: Whether the permission is granted. Constraints: N/A Value range: • true: The permission is granted. • false: The permission is not granted. Default value: N/A

Response Parameters

Status code: 200

Table 4-361 Response body parameters

Parameter	Type	Description
error	ErrorInfo object	Definition: Error message. Value range: N/A
result	Object	Definition: Error result. Value range: N/A
status	String	Definition: Status value. Value range: N/A

Table 4-362 ErrorInfo

Parameter	Type	Description
code	String	Definition: Error code. Value range: N/A
message	String	Definition: Error message. Value range: N/A

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.2.75 Querying Permissions of a Project

Function

This API is used to query permissions of a project.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v5/{project_id}/api/check-project/{type}

Table 4-363 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
type	Yes	String	Definition: Permission type. Constraints: N/A Value range: • create: Create a pipeline. • ban: Disable a pipeline. • group: Group pipelines. • read: Check a pipeline. • tag: Tag a pipeline. Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-364 Response body parameters

Parameter	Type	Description
[items]	Array of PermissionResult objects	Definition: Permission details. Value range: N/A

Table 4-365 PermissionResult

Parameter	Type	Description
key	String	Definition: Permission type. Value range: • create: Create a pipeline. • ban: Disable a pipeline. • group: Group pipelines. • read: Check a pipeline. • tag: Tag a pipeline.
value	Boolean	Definition: Whether the account has the permission. Value range: • true: The account has the permission. • false: The account does not have the permission.

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.2.76 Querying the Parameter Group Permissions Granted to a User

Function

This API is used to query the parameter group permissions granted to a user.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v5/{project_id}/api/variable/group/check-rights

Table 4-366 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-367 Response body parameters

Parameter	Type	Description
[items]	Array of AuthorizationVerdictVO objects	Definition: Authentication details list. Value range: N/A

Table 4-368 AuthorizationVerdictVO

Parameter	Type	Description
action	String	Definition: Permission details. Value range: N/A
verdict	String	Definition: Whether the account has the permission. Value range: • allow: The account has the permission. • deny: The account does not have the permission.

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.2.77 Querying Projects for Which a Pipeline Can Be Created

Function

This API is used to query projects for which a pipeline can be created.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v5/{tenant_id}/api/project/query-related-project

Table 4-369 Path Parameters

Parameter	Mandatory	Type	Description
tenant_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Table 4-370 Query Parameters

Parameter	Mandatory	Type	Description
page_index	No	Integer	Definition: Page number for pagination query. Constraints: N/A Value range: The value is greater than 0. Default value: 1.

Parameter	Mandatory	Type	Description
page_size	No	Integer	Definition: Number of records on each page. Constraints: N/A Value range: The value is greater than 0. Default value: N/A
search	No	String	Definition: Name for fuzzy search. Constraints: N/A Value range: N/A Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-371 Response body parameters

Parameter	Type	Description
total	Integer	Definition: Total number of projects. Value range: N/A
projectInfoList	Array of ProjectInfo objects	Definition: Project details in the project list. Value range: N/A

Table 4-372 ProjectInfo

Parameter	Type	Description
id	Integer	Definition: Project ID. Value range: N/A
identifier	String	Definition: Project identifier. Value range: The value consists of 32 characters, including digits and letters.
name	String	Definition: Project name. Value range: N/A
type	String	Definition: Project type. Value range: N/A
status	Integer	Definition: Project status. Value range: N/A
enableCreatePipe- line	Boolean	Definition: Whether a pipeline can be created. Value range: • true: The pipeline can be created. • false The pipeline cannot be created.

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.2.78 Determining Whether to Display a Popup Message Based on the Current Tenant's Subscription Status

Function

This API is used to determine whether to display a popup message based on the current tenant's subscription status.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v5/{tenant_id}/api/popup-status

Table 4-373 Path Parameters

Parameter	Mandatory	Type	Description
tenant_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Table 4-374 Query Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-375 Response body parameters

Parameter	Type	Description
projectDomainName	String	Definition: Name of the tenant to which the project belongs. Value range: N/A
currentDomainName	String	Definition: Tenant name of the current account. Value range: N/A
packageName	String	Definition: Tenant package name. Value range: N/A

Parameter	Type	Description
isFreeze	Boolean	Definition: Whether the account is frozen. Value range: • true: The account is frozen. • false: The account is not frozen.
freezeType	Array of strings	Definition: Freezing type. Value range: • normal: The account is normal. • freeze: The account is frozen due to standard check. • freeze_POLICE: The account is frozen due to security reasons. • freeze_ARREAR: The account is frozen due to arrears. • freeze_ILLEGAL: The account is frozen due to abuse. • freeze_PARTNER: The account is frozen for partnership. • close: The account is disabled.

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.2.79 Determining Whether the Tenant's Account Should Be Frozen Based on the Tenant's Subscription Status

Function

This API is used to determine whether the tenant's account should be frozen based on the tenant's subscription status.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v5/{tenant_id}/api/package-specs/is-freeze

Table 4-376 Path Parameters

Parameter	Mandatory	Type	Description
tenant_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Table 4-377 Query Parameters

Parameter	Mandatory	Type	Description
project_id	No	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-378 Response body parameters

Parameter	Type	Description
error	ErrorInfo object	Definition: Error message. Value range: N/A
result	Object	Definition: Error result. Value range: N/A
status	String	Definition: Status value. Value range: N/A

Table 4-379 ErrorInfo

Parameter	Type	Description
code	String	Definition: Error code. Value range: N/A
message	String	Definition: Error message. Value range: N/A

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.2.80 Querying the Extension Task Result

Function

This API is used to query the extension task result.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v5/{project_id}/api/pipelines/component/check

Table 4-380 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Table 4-381 Query Parameters

Parameter	Mandatory	Type	Description
componentId	Yes	String	Definition: Microservice ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-382 Response body parameters

Parameter	Type	Description
error	ErrorInfo object	Definition: Error message. Value range: N/A
result	Object	Definition: Error result. Value range: N/A
status	String	Definition: Status value. Value range: N/A

Table 4-383 ErrorInfo

Parameter	Type	Description
code	String	Definition: Error code. Value range: N/A
message	String	Definition: Error message. Value range: N/A

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.2.81 Querying the Pipeline Execution Plan List

Function

This API is used to query the pipeline execution plan list.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v5/{project_id}/api/pipelines/{pipelineId}/execution-plan/list

Table 4-384 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipelineId	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including only digits and letters. Default value: N/A

Table 4-385 Query Parameters

Parameter	Mandatory	Type	Description
name	No	String	Definition: Execution plan name. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
page_index	No	String	Definition: Page number that is queried. Constraints: N/A Value range: ≥ 0 Default value: N/A
page_size	No	String	Definition: Number of records of each query. Constraints: N/A Value range: ≥ 0 Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-386 Response body parameters

Parameter	Type	Description
total	Integer	Total number.

Status code: 200

Table 4-387 Response body parameters

Parameter	Type	Description
pageSize	Integer	Page size.

Status code: 200

Table 4-388 Response body parameters

Parameter	Type	Description
pageIndex	Integer	Page number.

Status code: 200

Table 4-389 Response body parameters

Parameter	Type	Description
data	Array	param6

Table 4-390 data

Parameter	Type	Description
id	String	id
name	String	Name.
pipelineId	String	Pipeline ID.
creatorId	String	Creator ID.
creator	String	Creator name.
createTime	String	Creation time.
updaterId	String	Updater ID.
updateTime	String	Update time.
runParam	String	Runtime parameters.

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	Total number.

Status Code	Description
200	Page size.
200	Page number.
200	Data list.

Error Codes

See [Error Codes](#).

4.2.82 Updating Details of a YAML Pipeline

Function

This API is used to update the details of a YAML pipeline.

Calling Method

For details, see [Calling APIs](#).

URI

PUT /v6/{domain_id}/api/pac/pipelines/{pipeline_id}

Table 4-391 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Tenant ID.
pipeline_id	Yes	String	Pipeline ID.

Table 4-392 Query Parameters

Parameter	Mandatory	Type	Description
project_id	No	String	Project ID.

Request Parameters

Table 4-393 Request body parameters

Parameter	Mandatory	Type	Description
name	No	String	Name.
description	No	String	Description.
push_to_repo	No	Boolean	Whether to push the code to a repository.
new_branch	No	Boolean	Branch name.
new_file	No	Boolean	Whether to create a file.
file_content	No	String	File content.
selected_branch	No	String	Selected branch.
push_branch	No	String	Name of the branch to be pushed.
commit_message	No	String	Commit message.
create_pull_request	No	Boolean	Whether to create a pull request.

Response Parameters

Status code: 200**Table 4-394** Response body parameters

Parameter	Type	Description
pipelineId	String	Pipeline ID.

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.2.83 Obtaining Pipeline Versions in Batches

Function

This API is used to obtain pipeline versions in batches.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v5/{project_id}/api/pipelines/pipelines-version

Table 4-395 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-396 Request body parameters

Parameter	Mandatory	Type	Description
[items]	No	Array of PipelineIdVO objects	Pipeline ID list.

Table 4-397 PipelineIdVO

Parameter	Mandatory	Type	Description
pipelineId	No	String	Pipeline ID.

Response Parameters

Status code: 200

Table 4-398 Response body parameters

Parameter	Type	Description
pipelineId	pipelineId object	Pipeline version details.

Table 4-399 pipelineId

Parameter	Type	Description
pipelineId	String	Pipeline ID.
manifestVersion	String	Pipeline version.

Example Requests

```
{  
  "-": "string"  
}
```

Example Responses

None

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.2.84 Querying the General Task List

Function

This API is used to query the general task list.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v5/{project_id}/api/reusable-jobs/list

Table 4-400 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-401 Request body parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Query offset.
limit	No	Integer	Page size.
sort_key	No	String	Sorting field.
sort_dir	No	String	Sorting direction.
name	No	String	Name for fuzzy search.

Response Parameters

Status code: 200

Table 4-402 Response body parameters

Parameter	Type	Description
offset	Integer	Offset.
limit	Integer	Number of records queried at a time.
total	Integer	Total number.
reusableJobs	Array of reusableJobs objects	Job list.

Table 4-403 reusableJobs

Parameter	Type	Description
id	String	Job ID.

Parameter	Type	Description
name	String	Job name.
description	String	Job description.
domain_id	String	Tenant ID.
region	String	Region information.
project_id	String	Project ID.
steps	Array of steps objects	Step list.
deleted	Boolean	Whether the object is deleted.
enabled	Boolean	Enable or not.
creator_id	String	Creator ID.
updater_id	String	Updater ID.
create_time	Integer	Creation time.
update_time	Integer	Update time.

Table 4-404 steps

Parameter	Type	Description
name	String	Step name.
task	String	Job type.

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.2.85 Running a YAML Pipeline

Function

This API is used to run a YAML pipeline.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v6/{domain_id}/api/pac/pipelines/{pipeline_id}/run

Table 4-405 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Tenant ID.
pipeline_id	Yes	String	Pipeline ID.

Table 4-406 Query Parameters

Parameter	Mandatory	Type	Description
project_id	No	String	Project ID.

Request Parameters

Table 4-407 Request body parameters

Parameter	Mandatory	Type	Description
sources	No	Array of sources objects	Code repository details.
description	No	String	Running description.
variables	No	Array of variables objects	Parameter list.
choose_jobs	No	Array of strings	Selected tasks to run.

Parameter	Mandatory	Type	Description
choose_stages	No	Array of strings	Selected stages to run.

Table 4-408 sources

Parameter	Mandatory	Type	Description
type	No	String	Code source type.
params	No	params object	Parameter details.

Table 4-409 params

Parameter	Mandatory	Type	Description
git_url	No	String	Code repository address.
git_type	No	String	Code repository type.
ssh_git_url	No	String	SSH address of the code repository.
web_url	No	String	Redirection URL.
repo_name	No	String	Code repository name.
codehub_id	No	String	Code repository ID.
default_branch	No	String	Default branch.
alias	No	String	Code repository alias.
endpoint_id	No	String	Endpoint ID.
build_params	No	build_params object	Trigger parameter details.
change_request_ids	No	String	Request ID.

Table 4-410 build_params

Parameter	Mandatory	Type	Description
build_type	No	String	Build type.
action	No	String	Job name.

Parameter	Mandatory	Type	Description
commit_id	No	String	Commit ID.
event_type	No	String	Trigger mode.
merge_id	No	String	merge_id of an MR.
source_branch	No	String	Source branch.
message	No	String	Trigger information.
tag	No	String	Trigger tag.
target_branch	No	String	Target branch.
codehub_id	No	String	Code repository ID.

Table 4-411 variables

Parameter	Mandatory	Type	Description
name	No	String	Parameter name.
value	No	String	Parameter value.

Response Parameters

Status code: 200

Table 4-412 Response body parameters

Parameter	Type	Description
pipeline_run_id	String	Definition: Pipeline run ID. Value range: The value consists of 32 characters, including only digits and letters.

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.2.86 Querying a Task Type

Function

This API is used to query a task type.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v2/{organizationId}/types/query

Table 4-413 Path Parameters

Parameter	Mandatory	Type	Description
organizationId	Yes	String	Organization ID.

Request Parameters

None

Response Parameters

Status code: 200

Table 4-414 Response body parameters

Parameter	Type	Description
typeKey	String	Type ID.
typeName	String	Type name.

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.3 Group Management

4.3.1 Creating a Pipeline Group

Function

This API is used to create pipeline group.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v5/{project_id}/api/pipeline-group/create

Table 4-415 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-416 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Table 4-417 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Definition: Pipeline group name. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
project_id	Yes	String	Definition: CodeArts project ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
parent_id	No	String	Definition: Parent group ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Response Parameters

Status code: 200

Table 4-418 Response body parameters

Parameter	Type	Description
id	String	Definition: Group ID. Value range: The value consists of 32 characters, including digits and letters.
domain_id	String	Definition: Tenant ID. Value range: The value consists of 32 characters, including digits and letters.
project_id	String	Definition: Project ID. Value range: The value consists of 32 characters, including digits and letters.
name	String	Definition: Group name. Value range: The value consists of 32 characters, including digits and letters.
parent_id	String	Definition: Parent group ID. Value range: The value consists of 32 characters, including digits and letters.
path_id	String	Parameter description: Group path ID. For example, id1.id2.id3 indicates that the parent group of group id3 is id2 , and the parent group of group** id2** is id1 . Value range: None.
ordinal	Integer	Parameter description: No. Value range: No less than 1.

Parameter	Type	Description
creator	String	Definition: Creator ID. Value range: The value consists of 32 characters, including digits and letters.
updater	String	Definition: Updater ID. Value range: The value consists of 32 characters, including digits and letters.
create_time	Long	Parameter description: Creation time. Value range: None.
update_time	Long	Parameter description: Update time. Value range: None.
children	Array of PipelineGroupVo objects	Definition: Pipeline running details. Value range: N/A

Status code: 400

Table 4-419 Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

Create group G1.

```
POST https://{endpoint}/v5/{project_id}/api/pipeline-group/create

{
  "name" : "G1",
  "project_id" : "d80a8a6530324b7bac972cbb8a9f28ec",
  "parent_id" : ""
}
```

Example Responses

Status code: 200

OK

```
{
  "id" : "58d55f8a646443a984e7399632b3963e",
  "domain_id" : "ce8df55870164338a72d7e828a966a2a",
  "project_id" : "d80a8a6530324b7bac972cbb8a9f28ec",
  "name" : "G1",
  "parent_id" : "",
  "path_id" : "58d55f8a646443a984e7399632b3963e",
  "ordinal" : 1,
  "creator" : "847a5317086c41798469d0868535943a",
  "updater" : null,
  "create_time" : null,
  "update_time" : null,
  "children" : null
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

Create group G1.

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class CreatePipelineGroupSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
```

```
.withSk(sk);

CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
    .withCredential(auth)
    .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
    .build();
CreatePipelineGroupRequest request = new CreatePipelineGroupRequest();
request.withProjectId("{project_id}");
PipelineGroupCreateDTO body = new PipelineGroupCreateDTO();
body.withParentId("");
body.withProjectId("d80a8a6530324b7bac972cbb8a9f28ec");
body.withName("G1");
request.withBody(body);
try {
    CreatePipelineGroupResponse response = client.createPipelineGroup(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

Create group G1.

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = CreatePipelineGroupRequest()
        request.project_id = "{project_id}"
        request.body = PipelineGroupCreateDTO(
            parent_id="",
            project_id="d80a8a6530324b7bac972cbb8a9f28ec",
            name="G1"
        )
        response = client.create_pipeline_group(request)
        print(response)
    except exceptions.ClientRequestException as e:
```

```
print(e.status_code)
print(e.request_id)
print(e.error_code)
print(e.error_msg)
```

Go

Create group G1.

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.CreatePipelineGroupRequest{}
    request.ProjectId = "{project_id}"
    parentIdPipelineGroupCreateDto := ""
    request.Body = &model.PipelineGroupCreateDto{
        ParentId: &parentIdPipelineGroupCreateDto,
        ProjectId: "d80a8a6530324b7bac972cbb8a9f28ec",
        Name: "G1",
    }
    response, err := client.CreatePipelineGroup(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.3.2 Updating a Pipeline Group

Function

This API is used to update a pipeline group.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v5/{project_id}/api/pipeline-group/update

Table 4-420 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-421 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Table 4-422 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Definition: Pipeline group name. Constraints: N/A Value range: N/A Default value: N/A
id	Yes	String	Definition: Pipeline group ID. Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-423 Response body parameters

Parameter	Type	Description
success	Boolean	Definition: Whether the operation is successful. Value range: • true: The operation is successful. • false: The operation fails.

Status code: 400**Table 4-424** Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

Change the group name to New Group 2.

```
POST https://{endpoint}/v5/d80a8a6530324b7bac972cbb8a9f28ec/api/pipeline-group/update
{
  "name" : "Creating group 2",
  "id" : "1d0ae9894c8549a88931539d1959c571"
}
```

Example Responses

Status code: 200

OK

```
{
  "success" : true
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

Change the group name to New Group 2.

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class UpdatePipelineGroupSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        UpdatePipelineGroupRequest request = new UpdatePipelineGroupRequest();
        request.withProjectId("{project_id}");
        PipelineGroupUpdateDTO body = new PipelineGroupUpdateDTO();
        body.withId("1d0ae9894c8549a88931539d1959c571");
        body.withName("Creating group 2");
        request.withBody(body);
        try {
            UpdatePipelineGroupResponse response = client.updatePipelineGroup(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

Change the group name to New Group 2.

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
```

```
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = UpdatePipelineGroupRequest()
        request.project_id = "{project_id}"
        request.body = PipelineGroupUpdateDTO(
            id="1d0ae9894c8549a88931539d1959c571",
            name="Creating group 2"
        )
        response = client.update_pipeline_group(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

Change the group name to New Group 2.

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UpdatePipelineGroupRequest{}
    request.ProjectId = "{project_id}"
```



```
request.Body = &model.PipelineGroupUpdateDto{
    Id: "1d0ae9894c8549a88931539d1959c571",
    Name: "Creating group 2",
}
response, err := client.UpdatePipelineGroup(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.3.3 Deleting a Pipeline Group

Function

This API is used to delete a pipeline group.

Calling Method

For details, see [Calling APIs](#).

URI

DELETE /v5/{project_id}/api/pipeline-group/delete

Table 4-425 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Table 4-426 Query Parameters

Parameter	Mandatory	Type	Description
id	Yes	String	Definition: Group ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-427 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-428 Response body parameters

Parameter	Type	Description
success	Boolean	Definition: Whether the operation is successful. Value range: • true: The operation is successful. • false: The operation fails.

Status code: 400

Table 4-429 Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A

Parameter	Type	Description
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

```
DELETE https://{endpoint}/v5/d80a8a6530324b7bac972cbb8a9f28ec/api/pipeline-group/delete?
id=1d0ae9894c8549a88931539d1959c571
```

Example Responses

Status code: 200

OK

```
{
  "success" : true
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class DeletePipelineGroupSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        DeletePipelineGroupRequest request = new DeletePipelineGroupRequest();
```

```
request.withProjectId("{project_id}");
try {
    DeletePipelineGroupResponse response = client.deletePipelineGroup(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = DeletePipelineGroupRequest()
        request.project_id = "{project_id}"
        response = client.delete_pipeline_group(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
```

```
risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
// In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
ak := os.Getenv("CLOUD_SDK_AK")
sk := os.Getenv("CLOUD_SDK_SK")

auth := basic.NewCredentialsBuilder().
    WithAk(ak).
    WithSk(sk).
    Build()

client := codeartspipeline.NewCodeArtsPipelineClient(
    codeartspipeline.CodeArtsPipelineClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.DeletePipelineGroupRequest{}
request.ProjectId = "{project_id}"
response, err := client.DeletePipelineGroup(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.3.4 Querying the Pipeline Group Tree

Function

This API is used to query the pipeline group tree.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v5/{project_id}/api/pipeline-group/tree

Table 4-430 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-431 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-432 Response body parameters

Parameter	Type	Description
[items]	Array of PipelineGroupVo objects	Parameter description: Pipeline group parameter list. PipelineGroupVo stores pipeline group parameters, including the IDs of parent and child groups. Constraints: None.

Table 4-433 PipelineGroupVo

Parameter	Type	Description
id	String	Definition: Group ID. Value range: The value consists of 32 characters, including digits and letters.
domain_id	String	Definition: Tenant ID. Value range: The value consists of 32 characters, including digits and letters.
project_id	String	Definition: Project ID. Value range: The value consists of 32 characters, including digits and letters.
name	String	Definition: Group name. Value range: The value consists of 32 characters, including digits and letters.
parent_id	String	Definition: Parent group ID. Value range: The value consists of 32 characters, including digits and letters.

Parameter	Type	Description
path_id	String	Parameter description: Group path ID. For example, id1.id2.id3 indicates that the parent group of group id3 is id2 , and the parent group of group** id2** is id1 . Value range: None.
ordinal	Integer	Parameter description: No. Value range: No less than 1.
creator	String	Definition: Creator ID. Value range: The value consists of 32 characters, including digits and letters.
updater	String	Definition: Updater ID. Value range: The value consists of 32 characters, including digits and letters.
create_time	Long	Parameter description: Creation time. Value range: None.
update_time	Long	Parameter description: Update time. Value range: None.
children	Array of PipelineGroupVo objects	Definition: Pipeline running details. Value range: N/A

Status code: 400

Table 4-434 Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

GET https://{endpoint}/v5/d80a8a6530324b7bac972cbb8a9f28ec/api/pipeline-group/tree

Example Responses

Status code: 200

OK

```
[ {
  "id" : "894daf0db79c4ccb839490770fa06596",
  "domain_id" : "ce8df55870164338a72d7e828a966a2a",
  "project_id" : "d80a8a6530324b7bac972cbb8a9f28ec",
  "name" : "Creating a Group 22",
  "parent_id" : "",
  "path_id" : "894daf0db79c4ccb839490770fa06596",
  "ordinal" : 2,
  "creator" : "847a5317086c41798469d0868535943a",
  "updater" : null,
  "create_time" : 1698487536000,
  "update_time" : null,
  "children" : null
}, {
  "id" : "2ca78947b25847a9ab68a07d8ef1347b",
  "domain_id" : "ce8df55870164338a72d7e828a966a2a",
  "project_id" : "d80a8a6530324b7bac972cbb8a9f28ec",
  "name" : "Creating group 11",
  "parent_id" : "",
  "path_id" : "2ca78947b25847a9ab68a07d8ef1347b",
  "ordinal" : 1,
  "creator" : "847a5317086c41798469d0868535943a",
  "updater" : null,
  "create_time" : 1698487008000,
  "update_time" : null,
  "children" : null
}, {
  "id" : "58d55f8a646443a984e7399632b3963e",
  "domain_id" : "ce8df55870164338a72d7e828a966a2a",
  "project_id" : "d80a8a6530324b7bac972cbb8a9f28ec",
  "name" : "G2",
  "parent_id" : "",
  "path_id" : "58d55f8a646443a984e7399632b3963e",
  "ordinal" : 0,
  "creator" : "847a5317086c41798469d0868535943a",
  "updater" : "847a5317086c41798469d0868535943a",
```

```
"create_time" : 1698484566000,
"update_time" : 1698485674000,
"children" : [ {
  "id" : "d805c90bf99049d3a49e83d2024df6b8",
  "domain_id" : "ce8df55870164338a72d7e828a966a2a",
  "project_id" : "d80a8a6530324b7bac972cbb8a9f28ec",
  "name" : "Creating group 3",
  "parent_id" : "58d55f8a646443a984e7399632b3963e",
  "path_id" : "58d55f8a646443a984e7399632b3963e.d805c90bf99049d3a49e83d2024df6b8",
  "ordinal" : 1,
  "creator" : "847a5317086c41798469d0868535943a",
  "updater" : "847a5317086c41798469d0868535943a",
  "create_time" : 1698487527000,
  "update_time" : 1698487868000,
  "children" : null
}, {
  "id" : "ebb779b3b9f742e181b1f6829fa1aca0",
  "domain_id" : "ce8df55870164338a72d7e828a966a2a",
  "project_id" : "d80a8a6530324b7bac972cbb8a9f28ec",
  "name" : "Creating a Group",
  "parent_id" : "58d55f8a646443a984e7399632b3963e",
  "path_id" : "58d55f8a646443a984e7399632b3963e.ebb779b3b9f742e181b1f6829fa1aca0",
  "ordinal" : 0,
  "creator" : "847a5317086c41798469d0868535943a",
  "updater" : null,
  "create_time" : 1698485344000,
  "update_time" : null,
  "children" : [ {
    "id" : "1b80aa3df0984e9caffefdc4e557524e",
    "domain_id" : "ce8df55870164338a72d7e828a966a2a",
    "project_id" : "d80a8a6530324b7bac972cbb8a9f28ec",
    "name" : "Creating group 4",
    "parent_id" : "ebb779b3b9f742e181b1f6829fa1aca0",
    "path_id" :
"58d55f8a646443a984e7399632b3963e.ebb779b3b9f742e181b1f6829fa1aca0.1b80aa3df0984e9caffefdc4e557524e",
    "ordinal" : 2,
    "creator" : "847a5317086c41798469d0868535943a",
    "updater" : null,
    "create_time" : 1698487502000,
    "update_time" : null,
    "children" : null
  }, {
    "id" : "6bc8a3cda52c41fe84d71c9ff86161ea",
    "domain_id" : "ce8df55870164338a72d7e828a966a2a",
    "project_id" : "d80a8a6530324b7bac972cbb8a9f28ec",
    "name" : "Creating group 3",
    "parent_id" : "ebb779b3b9f742e181b1f6829fa1aca0",
    "path_id" :
"58d55f8a646443a984e7399632b3963e.ebb779b3b9f742e181b1f6829fa1aca0.6bc8a3cda52c41fe84d71c9ff86161ea",
    "ordinal" : 1,
    "creator" : "847a5317086c41798469d0868535943a",
    "updater" : null,
    "create_time" : 1698486710000,
    "update_time" : null,
    "children" : null
  } ]
} ]
} ]
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class ShowPipelineGroupTreeSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowPipelineGroupTreeRequest request = new ShowPipelineGroupTreeRequest();
        request.withProjectId("{project_id}");
        try {
            ShowPipelineGroupTreeResponse response = client.showPipelineGroupTree(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
```

```
sk = os.environ["CLOUD_SDK_SK"]

credentials = BasicCredentials(ak, sk)

client = CodeArtsPipelineClient.new_builder() \
    .with_credentials(credentials) \
    .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
    .build()

try:
    request = ShowPipelineGroupTreeRequest()
    request.project_id = "{project_id}"
    response = client.show_pipeline_group_tree(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowPipelineGroupTreeRequest{}
    request.ProjectId = "{project_id}"
    response, err := client.ShowPipelineGroupTree(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.3.5 Moving Multiple Pipelines To a Group

Function

This API is used to move multiple pipelines to a group.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v5/{project_id}/api/pipeline-group/pipeline/move

Table 4-435 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-436 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Table 4-437 Request body parameters

Parameter	Mandatory	Type	Description
group_id	Yes	String	Definition: Group ID. Constraints: N/A Value range: N/A Default value: N/A
pipelines	Yes	Array of pipelines objects	Definition: Pipeline set. Constraints: N/A Value range: N/A Default value: N/A

Table 4-438 pipelines

Parameter	Mandatory	Type	Description
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including only digits and letters. Default value: N/A
pipeline_name	Yes	String	Definition: Pipeline name. Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-439 Response body parameters

Parameter	Type	Description
[items]	Array of PipelineMoveToGroupResponseVo objects	Definition: Response details. Value range: N/A

Table 4-440 PipelineMoveToGroupResponseVo

Parameter	Type	Description
code	String	Definition: Response code. Value range: • failed: failed. • success: succeeded.
pipeline_id	String	Definition: Pipeline ID. Value range: The value consists of 32 characters, including digits and letters.
pipeline_name	String	Definition: Pipeline name. Value range: N/A

Status code: 400**Table 4-441** Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

POST https://{endpoint}/v5/d80a8a6530324b7bac972cbb8a9f28ec/api/pipeline-group/pipeline/move

```
{
  "group_id" : "2ca78947b25847a9ab68a07d8ef1347b",
  "pipelines" : [ {
    "pipeline_id" : "1ae88404911a4513bcdf8158ab6a0416",
    "pipeline_name" : "sdfgsdfgdfsg345345"
  }, {
    "pipeline_id" : "b99de7c698264251ac1fc3c053dc2b34",
    "pipeline_name" : "32131233131025122241"
  }
]
```

```
    }  
  }  
}
```

Example Responses

Status code: 200

OK

```
[ {  
  "code" : "success",  
  "pipeline_id" : "1ae88404911a4513bcdf8158ab6a0416",  
  "pipeline_name" : "sdfgsdfgdfsg345345"  
}, {  
  "code" : "success",  
  "pipeline_id" : "b99de7c698264251ac1fc3c053dc2b34",  
  "pipeline_name" : "32131233131025122241"  
}]
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;  
  
import com.huaweicloud.sdk.core.auth.ICredential;  
import com.huaweicloud.sdk.core.auth.BasicCredentials;  
import com.huaweicloud.sdk.core.exception.ConnectionException;  
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;  
import com.huaweicloud.sdk.core.exception.ServiceResponseException;  
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;  
import com.huaweicloud.sdk.codeartspipeline.v2.*;  
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;  
  
import java.util.List;  
import java.util.ArrayList;  
  
public class BatchMovePipelineToGroupSolution {  
  
    public static void main(String[] args) {  
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great  
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or  
        // environment variables and decrypted during use to ensure security.  
        // In this example, AK and SK are stored in environment variables for authentication. Before running  
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
        String ak = System.getenv("CLOUD_SDK_AK");  
        String sk = System.getenv("CLOUD_SDK_SK");  
  
        ICredential auth = new BasicCredentials()  
            .withAk(ak)  
            .withSk(sk);  
  
        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()  
            .withCredential(auth)  
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))  
            .build();  
        BatchMovePipelineToGroupRequest request = new BatchMovePipelineToGroupRequest();  
        request.withProjectId("{project_id}");  
        PipelineGroupBindDTO body = new PipelineGroupBindDTO();  
        List<PipelineGroupBindDTOPipelines> listbodyPipelines = new ArrayList<>();  
        listbodyPipelines.add(  
            new PipelineGroupBindDTOPipelines()  
                .withPipelineId("1ae88404911a4513bcdf8158ab6a0416")  
                .withPipelineName("sdfgsdfgdfsg345345")  
        );  
    }  
}
```

```
listbodyPipelines.add(  
    new PipelineGroupBindDTOPipelines()  
        .withPipelineId("b99de7c698264251ac1fc3c053dc2b34")  
        .withPipelineName("32131233131025122241")  
);  
body.withPipelines(listbodyPipelines);  
body.withGroupId("2ca78947b25847a9ab68a07d8ef1347b");  
request.withBody(body);  
try {  
    BatchMovePipelineToGroupResponse response = client.batchMovePipelineToGroup(request);  
    System.out.println(response.toString());  
} catch (ConnectionException e) {  
    e.printStackTrace();  
} catch (RequestTimeoutException e) {  
    e.printStackTrace();  
} catch (ServiceResponseException e) {  
    e.printStackTrace();  
    System.out.println(e.getHttpStatusCode());  
    System.out.println(e.getRequestId());  
    System.out.println(e.getErrorCode());  
    System.out.println(e.getErrorMsg());  
}  
}
```

Python

```
# coding: utf-8  
  
import os  
from huaweicloudsdkcore.auth.credentials import BasicCredentials  
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion  
from huaweicloudsdkcore.exceptions import exceptions  
from huaweicloudsdkcodeartspipeline.v2 import *  
  
if __name__ == "__main__":  
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    # variables and decrypted during use to ensure security.  
    # In this example, AK and SK are stored in environment variables for authentication. Before running this  
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak = os.environ["CLOUD_SDK_AK"]  
    sk = os.environ["CLOUD_SDK_SK"]  
  
    credentials = BasicCredentials(ak, sk)  
  
    client = CodeArtsPipelineClient.new_builder() \  
        .with_credentials(credentials) \  
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \  
        .build()  
  
    try:  
        request = BatchMovePipelineToGroupRequest()  
        request.project_id = "{project_id}"  
        listPipelinesbody = [  
            PipelineGroupBindDTOPipelines(  
                pipeline_id="1ae88404911a4513bcd8158ab6a0416",  
                pipeline_name="sdfgsdfgdfsg345345"  
            ),  
            PipelineGroupBindDTOPipelines(  
                pipeline_id="b99de7c698264251ac1fc3c053dc2b34",  
                pipeline_name="32131233131025122241"  
            )  
        ]  
        request.body = PipelineGroupBindDTO(  
            pipelines=listPipelinesbody,  
            group_id="2ca78947b25847a9ab68a07d8ef1347b"  
        )  
        response = client.batch_move_pipeline_to_group(request)
```

```
print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.BatchMovePipelineToGroupRequest{}
    request.ProjectId = "{project_id}"
    var listPipelinesbody = []model.PipelineGroupBindDtoPipelines{
        {
            PipelineId: "1ae88404911a4513bcdf8158ab6a0416",
            PipelineName: "sdfgsdfgdfsg345345",
        },
        {
            PipelineId: "b99de7c698264251ac1fc3c053dc2b34",
            PipelineName: "32131233131025122241",
        },
    }
    request.Body = &model.PipelineGroupBindDto{
        Pipelines: listPipelinesbody,
        GroupId: "2ca78947b25847a9ab68a07d8ef1347b",
    }
    response, err := client.BatchMovePipelineToGroup(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.4 Rule Management

4.4.1 Obtaining Details About a Single Rule

Function

This API is used to query details about a single rule.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v2/{domain_id}/rules/{rule_id}/detail

Table 4-442 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
rule_id	Yes	String	Definition: Rule ID, which is the unique identifier of a rule. Obtain the rule ID by calling the API for obtaining rules by page . data.id indicates the rule ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-443 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200**Table 4-444** Response body parameters

Parameter	Type	Description
id	String	Definition: Rule ID. Value range: The value consists of 32 characters, including digits and letters.
type	String	Definition: Rule type. Value range: • Build. • Gate: code check. • Test.
name	String	Definition: Rule name. Value range: N/A

Parameter	Type	Description
is_valid	Boolean	Definition: Whether the rule is valid. Value range: true: valid; false: invalid
version	String	Definition: Rule version. Value range: N/A
plugin_id	String	Definition: Extension ID. Value range: N/A
plugin_name	String	Definition: Extension name. Value range: N/A
plugin_version	String	Definition: Extension version number. Value range: N/A
creator	String	Definition: Rule creator. Value range: N/A
create_time	String	Definition: Time when a rule was created. Value range: N/A
updater	String	Definition: User who last updated the rule. Value range: N/A
update_time	String	Definition: Time when the rule was last updated. Value range: N/A

Parameter	Type	Description
content	Array of RuleContent objects	Definition: Rule attributes. Value range: N/A

Table 4-445 RuleContent

Parameter	Type	Description
group_name	String	Definition: Group name. Constraints: N/A Value range: N/A Default value: N/A
can_modify_when_inherit	Boolean	Definition: Whether the threshold of the inherited sub-policy can be modified. Constraints: N/A Value range: N/A Default value: N/A
properties	Array of RuleProperty objects	Definition: Rule attributes. Constraints: N/A Value range: N/A Default value: N/A

Table 4-446 RuleProperty

Parameter	Type	Description
key	String	Definition: Attribute key. Constraints: N/A Value range: N/A Default value: N/A
type	String	Definition: Type. Constraints: N/A Value range: N/A Default value: N/A
name	String	Definition: Displayed name. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Type	Description
operator	String	Definition: Comparison operator. Constraints: N/A Value range: • =: equal to. • >: greater than. • <: less than. • >=: greater than or equal to. • <=: less than or equal to. • !=: not equal to. • in: included. • not in: not included. Default value: N/A
value	String	Definition: Attribute value. Constraints: N/A Value range: N/A Default value: N/A
value_type	String	Definition: Data type. Constraints: N/A Value range: • float: numeric type • string: string type. Default value: N/A

Parameter	Type	Description
is_valid	Boolean	Definition: Attribute enabled or not. Constraints: N/A Value range: • true: enabled. • false: disabled. Default value: false.

Status code: 400**Table 4-447** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A Value range: N/A Default value: N/A
error_msg	String	Definition: Error message. Constraints: N/A Value range: N/A Default value: N/A

Status code: 401

Table 4-448 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A Value range: N/A Default value: N/A
error_msg	String	Definition: Error message. Constraints: N/A Value range: N/A Default value: N/A

Status code: 403**Table 4-449** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Type	Description
error_msg	String	Definition: Error message. Constraints: N/A Value range: N/A Default value: N/A

Status code: 404**Table 4-450** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A Value range: N/A Default value: N/A
error_msg	String	Definition: Error message. Constraints: N/A Value range: N/A Default value: N/A

Example Requests

```
GET https://{endpoint}/v2/ce8df55870164338a72d7e828a966a2a/rules/865b4c2d616b46ab890fff056a6f7e05/detail
```

Example Responses**Status code: 200**

Request succeeded.

```
{
  "id" : "865b4c2d616b46ab890fff056a6f7e05",
  "type" : "Build",
  "name" : "New Rule-20231020103003",
  "version" : "e2db2a63b3064252874b1b5a8571e2be",
  "plugin_id" : "official_devcloud_cloudBuild",
  "plugin_name" : "official_devcloud_cloudBuild",
  "plugin_version" : "0.0.15",
  "content" : [ {
    "group_name" : "MavenUnitTest",
    "can_modify_when_inherit" : true,
    "properties" : [ {
      "key" : "build.PassRatio",
      "type" : "judge",
      "name" : "PassRatio",
      "value_type" : "float",
      "value" : "0.1",
      "operator" : "="
    }, {
      "key" : "build.TotalCases",
      "type" : "judge",
      "name" : "TotalCases",
      "value_type" : "float",
      "value" : "0.1",
      "operator" : "="
    }, {
      "key" : "build.CoverageRatio",
      "type" : "judge",
      "name" : "CoverageRatio",
      "value_type" : "float",
      "value" : "0.1",
      "operator" : "="
    }
  ]
}, {
  "creator" : "847a5317086c41798469d0868535943a",
  "create_time" : "2023-10-20T10:30:20",
  "updater" : "847a5317086c41798469d0868535943a",
  "update_time" : "2023-10-20T10:30:20"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class ShowRuleSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");
    }
}
```

```
ICredential auth = new BasicCredentials()
    .withAk(ak)
    .withSk(sk);

CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
    .withCredential(auth)
    .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
    .build();
ShowRuleRequest request = new ShowRuleRequest();
request.withDomainId("{domain_id}");
request.withRuleId("{rule_id}");
try {
    ShowRuleResponse response = client.showRule(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowRuleRequest()
        request.domain_id = "{domain_id}"
        request.rule_id = "{rule_id}"
        response = client.show_rule(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```


Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowRuleRequest{}
    request.DomainId = "{domain_id}"
    request.RuleId = "{rule_id}"
    response, err := client.ShowRule(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	Authentication failed.
403	No permission.
404	Resource not found.

Error Codes

See [Error Codes](#).

4.4.2 Obtaining the Rule List by Page

Function

This API is used to obtain the rule list by page.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v2/{domain_id}/rules/query

Table 4-451 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Table 4-452 Query Parameters

Parameter	Mandatory	Type	Description
cloud_project_id	No	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
offset	Yes	Integer	Definition: Offset where the query starts. This parameter must be used together with limit . Constraints: N/A Value range: The offset value must be no less than 0. Default value: N/A
limit	Yes	Integer	Definition: Number of records of each query. Constraints: N/A Value range: 1 to 100. Default value: N/A

Parameter	Mandatory	Type	Description
type	No	String	Definition: Rule type. Constraints: N/A Value range: N/A Default value: N/A
name	No	String	Definition: Rule name, which is used for fuzzy search. Constraints: N/A Value range: N/A Default value: N/A

Request Parameters

Table 4-453 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-454 Response body parameters

Parameter	Type	Description
data	Array of Rule objects	Definition: Static rule list. Value range: N/A
total	Integer	Definition: Total number of queried static rules. Value range: N/A

Table 4-455 Rule

Parameter	Type	Description
id	String	Definition: Rule ID. Value range: N/A
type	String	Definition: Rule type. Value range: N/A
name	String	Definition: Rule name. Value range: N/A
version	String	Definition: Rule version. Value range: N/A
operator	String	Definition: Latest operator. Value range: N/A

Parameter	Type	Description
operate_time	Long	Definition: Last operation time. Value range: N/A

Status code: 400**Table 4-456** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A Value range: N/A Default value: N/A
error_msg	String	Definition: Error message. Constraints: N/A Value range: N/A Default value: N/A

Status code: 401

Table 4-457 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A Value range: N/A Default value: N/A
error_msg	String	Definition: Error message. Constraints: N/A Value range: N/A Default value: N/A

Status code: 403**Table 4-458** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Type	Description
error_msg	String	Definition: Error message. Constraints: N/A Value range: N/A Default value: N/A

Status code: 404

Table 4-459 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A Value range: N/A Default value: N/A
error_msg	String	Definition: Error message. Constraints: N/A Value range: N/A Default value: N/A

Example Requests

```
GET https://{endpoint}/v2/ce8df55870164338a72d7e828a966a2a/rules/query?cloud_project_id=&type=&name=&limit=10&offset=1
```

Example Responses

Status code: 200

Request succeeded.


```
{
  "data": [ {
    "id": "425eba0deaf04596a74cf7967d7fc04d",
    "type": "Test",
    "name": "New Rule-20230919104204",
    "version": "07ef68721822485dba6c326829567095",
    "operator": "SectestB",
    "operate_time": 1695091381000
  }, {
    "id": "35a14c7a215745999cd579cfd862982e",
    "type": "Gate",
    "name": "0919-0919",
    "version": "318e271a3fb24a888d5f484244ee994d",
    "operator": "SectestB",
    "operate_time": 1695091297000
  }, {
    "id": "fddb790b7b024c6aa8d53e50577b1464",
    "type": "Gate",
    "name": "New Rule 0919",
    "version": "185537e4a10e418ba5f8ad424fabbb7e",
    "operator": "SectestB",
    "operate_time": 1695091251000
  }, {
    "id": "062f3ca8f9b14eb79af09069a227fc8c",
    "type": "Gate",
    "name": "Creating a Rule iam",
    "version": "c12fb9341230457890993533e03ab374",
    "operator": "testqxy",
    "operate_time": 1695072045000
  }, {
    "id": "b3def7ae86d844718de5eb248c1271d3",
    "type": "Gate",
    "name": "Creating rule iam0023",
    "version": "58a0ee7673924a1dadcf6ec28d23864c",
    "operator": "SectestB",
    "operate_time": 1694682961000
  }, {
    "id": "ce74e818321d4d40b5235c0309fd8cda",
    "type": "Gate",
    "name": "apitest-create-1694588962601-QsaY",
    "version": "d65df316e067454db9467736412db418",
    "operator": "xxx",
    "operate_time": 1694588963000
  }, {
    "id": "22973b3a02fe439ea8b642b3a6e23e02",
    "type": "Gate",
    "name": "Check",
    "version": "14cb09a530c744418013cf254e7dd262",
    "operator": "testjyw",
    "operate_time": 1694500871000
  }, {
    "id": "a440107f12ea40439abf7203c0b3c264",
    "type": "Build",
    "name": "New Rule-20230912144025",
    "version": "1e99dbd87183453e9c719ded49cd3f9d",
    "operator": "testjyw",
    "operate_time": 1694500845000
  }, {
    "id": "590700d339d44fb9beee87366332509b",
    "type": "Gate",
    "name": "New rule-20230912140536",
    "version": "a35c74fc13ea4cdfa32ca541b3b92b2d",
    "operator": "xxx",
    "operate_time": 1694498754000
  }, {
    "id": "defe9a17d6ae468cb7224b080fe418a3",
    "type": "Gate",
    "name": "New Rule-20230911100734-chq",
    "version": "dbd00db8d87747fda87eb0b9a0a4d3ac",
```

```
"operator" : "xxx",
"operate_time" : 1694398087000
}],
"total" : 50
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class ListRuleSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        ListRuleRequest request = new ListRuleRequest();
        request.withDomainId("{domain_id}");
        try {
            ListRuleResponse response = client.listRule(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
```

```
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListRuleRequest()
        request.domain_id = "{domain_id}"
        response = client.list_rule(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListRuleRequest{}
    request.DomainId = "{domain_id}"
    response, err := client.ListRule(request)
    if err == nil {
        fmt.Printf("%v\n", response)
    }
}
```

```
} else {  
    fmt.Println(err)  
}  
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	Authentication failed.
403	No permission.
404	Resource not found.

Error Codes

See [Error Codes](#).

4.4.3 Updating a Rule

Function

This API is used to update a rule.

Calling Method

For details, see [Calling APIs](#).

URI

PUT /v2/{domain_id}/rules/{rule_id}/update

Table 4-460 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
rule_id	Yes	String	Definition: Rule ID, which is the unique identifier of a rule. Obtain the rule ID by calling the API for obtaining rules by page . data.id indicates the rule ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-461 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Table 4-462 Request body parameters

Parameter	Mandatory	Type	Description
type	Yes	String	Definition: Rule type. Constraints: N/A Value range: • Build. • Gate: code check. • Test. Default value: N/A
name	Yes	String	Definition: Rule name. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
plugin_id	No	String	Definition: Extension ID. Obtain the ID by calling the API for querying the extension details . unique_id indicates extension ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
plugin_name	No	String	Definition: Extension name. Constraints: Enter only letters, digits, hyphens (-), and underscores (_). Value range: 1 to 50 characters. Default value: N/A
plugin_version	No	String	Definition: Extension version number. Constraints: Enter only letters, digits, hyphens (-), and underscores (_). Value range: 1 to 50 characters. Default value: N/A

Parameter	Mandatory	Type	Description
content	Yes	Array of RuleContent objects	Definition: Rule attributes. Constraints: N/A Value range: N/A Default value: N/A

Table 4-463 RuleContent

Parameter	Mandatory	Type	Description
group_name	Yes	String	Definition: Group name. Constraints: N/A Value range: N/A Default value: N/A
can_modify_when_inherit	No	Boolean	Definition: Whether the threshold of the inherited sub-policy can be modified. Constraints: N/A Value range: N/A Default value: N/A
properties	Yes	Array of RuleProperty objects	Definition: Rule attributes. Constraints: N/A Value range: N/A Default value: N/A

Table 4-464 RuleProperty

Parameter	Mandatory	Type	Description
key	Yes	String	Definition: Attribute key. Constraints: N/A Value range: N/A Default value: N/A
type	Yes	String	Definition: Type. Constraints: N/A Value range: N/A Default value: N/A
name	Yes	String	Definition: Displayed name. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
operator	No	String	Definition: Comparison operator. Constraints: N/A Value range: • =: equal to. • >: greater than. • <: less than. • >=: greater than or equal to. • <=: less than or equal to. • !=: not equal to. • in: included. • not in: not included. Default value: N/A
value	Yes	String	Definition: Attribute value. Constraints: N/A Value range: N/A Default value: N/A
value_type	Yes	String	Definition: Data type. Constraints: N/A Value range: • float: numeric type • string: string type. Default value: N/A

Parameter	Mandatory	Type	Description
is_valid	No	Boolean	Definition: Attribute enabled or not. Constraints: N/A Value range: • true: enabled. • false: disabled. Default value: false.

Response Parameters

Status code: 200

Table 4-465 Response body parameters

Parameter	Type	Description
status	Boolean	Definition: Whether the calling is successful. Value range: • true: The calling is successful. • false: The calling fails.
rule_id	String	Definition: Rule ID, which is the unique identifier of a rule. Obtain the rule ID by calling the API for obtaining rules by page . data.id indicates the rule ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Status code: 400

Table 4-466 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A Value range: N/A Default value: N/A
error_msg	String	Definition: Error message. Constraints: N/A Value range: N/A Default value: N/A

Status code: 401**Table 4-467** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Type	Description
error_msg	String	Definition: Error message. Constraints: N/A Value range: N/A Default value: N/A

Status code: 403**Table 4-468** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A Value range: N/A Default value: N/A
error_msg	String	Definition: Error message. Constraints: N/A Value range: N/A Default value: N/A

Status code: 404

Table 4-469 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A Value range: N/A Default value: N/A
error_msg	String	Definition: Error message. Constraints: N/A Value range: N/A Default value: N/A

Example Requests

```
PUT https://{endpoint}/v2/ce8df55870164338a72d7e828a966a2a/rules/425eba0deaf04596a74cf7967d7fc04d/update
{
  "name" : "New Rule-20230919104204",
  "type" : "Test",
  "plugin_id" : "official_devcloud_apiTest",
  "plugin_name" : "official_devcloud_apiTest",
  "plugin_version" : "0.0.12",
  "layout_content" : "layout_content",
  "content" : [ {
    "group_name" : "API test pass rate access control",
    "properties" : [ {
      "key" : "pass_ratio",
      "name" : "API test pass rate",
      "type" : "judge",
      "operator" : "=",
      "value_type" : "float",
      "value" : "0.5"
    } ]
  } ]
}
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "status" : true,
```

```
"rule_id" : "425eba0deaf04596a74cf7967d7fc04d"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

import java.util.List;
import java.util.ArrayList;

public class UpdateRuleSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        UpdateRuleRequest request = new UpdateRuleRequest();
        request.withDomainId("{domain_id}");
        request.withRuleId("{rule_id}");
        UpdateRuleReq body = new UpdateRuleReq();
        List<RuleProperty> listContentProperties = new ArrayList<>();
        listContentProperties.add(
            new RuleProperty()
                .withKey("pass_ratio")
                .withType("judge")
                .withName("API test pass rate")
                .withOperator("=")
                .withValue("0.5")
                .withValueType("float")
        );
        List<RuleContent> listbodyContent = new ArrayList<>();
        listbodyContent.add(
            new RuleContent()
                .withGroupName("API test pass rate access control")
                .withProperties(listContentProperties)
        );
        body.withContent(listbodyContent);
        body.withPluginVersion("0.0.12");
        body.withPluginName("official_devcloud_apiTest");
        body.withPluginId("official_devcloud_apiTest");
        body.withLayoutContent("layout_content");
        body.withName("New Rule-20230919104204");
    }
}
```

```
body.withType("Test");
request.withBody(body);
try {
    UpdateRuleResponse response = client.updateRule(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = UpdateRuleRequest()
        request.domain_id = "{domain_id}"
        request.rule_id = "{rule_id}"
        listPropertiesContent = [
            RuleProperty(
                key="pass_ratio",
                type="judge",
                name="API test pass rate",
                operator="=",
                value="0.5",
                value_type="float"
            )
        ]
        listContentbody = [
            RuleContent(
                group_name="API test pass rate access control",
                properties=listPropertiesContent
            )
        ]
        request.body = UpdateRuleReq(
            content=listContentbody,
            plugin_version="0.0.12",
            plugin_name="official_devcloud_apiTest",
```



```
        plugin_id="official_devcloud_apiTest",
        layout_content="layout_content",
        name="New Rule-20230919104204",
        type="Test"
    )
    response = client.update_rule(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UpdateRuleRequest{}
    request.DomainId = "{domain_id}"
    request.RuleId = "{rule_id}"
    operatorProperties := "="
    var listPropertiesContent = []model.RuleProperty{
        {
            Key: "pass_ratio",
            Type: "judge",
            Name: "API test pass rate",
            Operator: &operatorProperties,
            Value: "0.5",
            ValueType: "float",
        },
    }
    var listContentbody = []model.RuleContent{
        {
            GroupName: "API test pass rate access control",
            Properties: listPropertiesContent,
        },
    }
    pluginVersionUpdateRuleReq := "0.0.12"
    pluginNameUpdateRuleReq := "official_devcloud_apiTest"
    pluginIdUpdateRuleReq := "official_devcloud_apiTest"
    request.Body = &model.UpdateRuleReq{
```

```
Content: listContentbody,  
PluginVersion: &pluginVersionUpdateRuleReq,  
PluginName: &pluginNameUpdateRuleReq,  
PluginId: &pluginIdUpdateRuleReq,  
LayoutContent: "layout_content",  
Name: "New Rule-20230919104204",  
Type: "Test",  
}  
response, err := client.UpdateRule(request)  
if err == nil {  
    fmt.Printf("%+v\n", response)  
} else {  
    fmt.Println(err)  
}  
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	Authentication failed.
403	No permission.
404	Resource not found.

Error Codes

See [Error Codes](#).

4.4.4 Deleting a Rule

Function

This API is used to delete a rule.

Calling Method

For details, see [Calling APIs](#).

URI

DELETE /v2/{domain_id}/rules/{rule_id}/delete

Table 4-470 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
rule_id	Yes	String	Definition: Rule ID, which is the unique identifier of a rule. Obtain the rule ID by calling the API for obtaining rules by page . data.id indicates the rule ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-471 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-472 Response body parameters

Parameter	Type	Description
status	Boolean	Definition: Whether the deletion is successful. Value range: • true: The deletion is successful. • false: The deletion fails.

Status code: 400

Table 4-473 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A Value range: N/A Default value: N/A
error_msg	String	Definition: Error message. Constraints: N/A Value range: N/A Default value: N/A

Status code: 401**Table 4-474** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Type	Description
error_msg	String	Definition: Error message. Constraints: N/A Value range: N/A Default value: N/A

Status code: 403**Table 4-475** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A Value range: N/A Default value: N/A
error_msg	String	Definition: Error message. Constraints: N/A Value range: N/A Default value: N/A

Status code: 404

Table 4-476 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A Value range: N/A Default value: N/A
error_msg	String	Definition: Error message. Constraints: N/A Value range: N/A Default value: N/A

Example Requests

```
DELETE https://{endpoint}/v2/ce8df55870164338a72d7e828a966a2a/rules/  
2965ed53fe804115816b781ab20fef3c/delete
```

Example Responses

Status code: 200

Request succeeded.

```
{  
  "status" : true  
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;  
  
import com.huaweicloud.sdk.core.auth.ICredential;  
import com.huaweicloud.sdk.core.auth.BasicCredentials;  
import com.huaweicloud.sdk.core.exception.ConnectionException;  
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;  
import com.huaweicloud.sdk.core.exception.ServiceResponseException;  
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;  
import com.huaweicloud.sdk.codeartspipeline.v2.*;
```

```
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class DeleteRuleSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        DeleteRuleRequest request = new DeleteRuleRequest();
        request.withDomainId("{domain_id}");
        request.withRuleId("{rule_id}");
        try {
            DeleteRuleResponse response = client.deleteRule(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
```



```
request = DeleteRuleRequest()
request.domain_id = "{domain_id}"
request.rule_id = "{rule_id}"
response = client.delete_rule(request)
print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.DeleteRuleRequest{}
    request.DomainId = "{domain_id}"
    request.RuleId = "{rule_id}"
    response, err := client.DeleteRule(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	Request succeeded.

Status Code	Description
400	Request failed.
401	Authentication failed.
403	No permission.
404	Resource not found.

Error Codes

See [Error Codes](#).

4.4.5 Creating a Rule

Function

This API is used to create a rule.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v2/{domain_id}/rules/create

Table 4-477 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-478 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Table 4-479 Request body parameters

Parameter	Mandatory	Type	Description
type	Yes	String	Definition: Type of the rule to be created. Constraints: N/A Value range: • Build. • Gate. • Deploy. • Test. • Normal. Default value: N/A

Parameter	Mandatory	Type	Description
name	Yes	String	Definition: Rule name. Constraints: N/A Value range: N/A Default value: N/A
layout_content	Yes	String	Definition: Layout content. Constraints: N/A Value range: N/A Default value: N/A
plugin_id	No	String	Definition: Extension ID. Obtain the ID by calling the API for querying the extension details . unique_id indicates extension ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Parameter	Mandatory	Type	Description
plugin_name	No	String	Definition: Extension name. Constraints: Enter only letters, digits, hyphens (-), and underscores (_). Value range: 1 to 50 characters. Default value: N/A
plugin_version	No	String	Definition: Extension version number. Constraints: The value must be in the format of <i>x.xx.xx</i> , where <i>x</i> is a number ranging from 0 to 99. <i>xx</i> indicates the number following the dot (.). Each <i>xx</i> can be a one-digit or two-digit number. Value range: N/A Default value: N/A
content	Yes	Array of RuleContent objects	Definition: Rule attribute group list. Constraints: N/A Value range: N/A Default value: N/A

Table 4-480 RuleContent

Parameter	Mandatory	Type	Description
group_name	Yes	String	Definition: Group name. Constraints: N/A Value range: N/A Default value: N/A
can_modify_when_inherit	No	Boolean	Definition: Whether the threshold of the inherited sub-policy can be modified. Constraints: N/A Value range: N/A Default value: N/A
properties	Yes	Array of RuleProperty objects	Definition: Rule attributes. Constraints: N/A Value range: N/A Default value: N/A

Table 4-481 RuleProperty

Parameter	Mandatory	Type	Description
key	Yes	String	Definition: Attribute key. Constraints: N/A Value range: N/A Default value: N/A
type	Yes	String	Definition: Type. Constraints: N/A Value range: N/A Default value: N/A
name	Yes	String	Definition: Displayed name. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
operator	No	String	Definition: Comparison operator. Constraints: N/A Value range: • =: equal to. • >: greater than. • <: less than. • >=: greater than or equal to. • <=: less than or equal to. • !=: not equal to. • in: included. • not in: not included. Default value: N/A
value	Yes	String	Definition: Attribute value. Constraints: N/A Value range: N/A Default value: N/A
value_type	Yes	String	Definition: Data type. Constraints: N/A Value range: • float: numeric type • string: string type. Default value: N/A

Parameter	Mandatory	Type	Description
is_valid	No	Boolean	Definition: Attribute enabled or not. Constraints: N/A Value range: • true: enabled. • false: disabled. Default value: false.

Response Parameters

Status code: 200

Table 4-482 Response body parameters

Parameter	Type	Description
status	Boolean	Definition: Creation status. Constraints: N/A Value range: N/A Default value: N/A
rule_id	String	Definition: Rule ID. Constraints: N/A Value range: N/A Default value: N/A

Status code: 400

Table 4-483 Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

POST https://{endpoint}/v2/ce8df55870164338a72d7e828a966a2a/rules/create

```
{
  "name" : "Creating a Rule - 20231020170337",
  "type" : "Build",
  "plugin_id" : "official_devcloud_cloudBuild",
  "plugin_name" : "official_devcloud_cloudBuild",
  "plugin_version" : "0.0.15",
  "layout_content" : "layout_content",
  "content" : [ {
    "group_name" : "MavenUnitTest",
    "properties" : [ {
      "key" : "build.PassRatio",
      "name" : "PassRatio",
      "type" : "judge",
      "operator" : "=",
      "value_type" : "float",
      "value" : "0.1"
    }, {
      "key" : "build.TotalCases",
      "name" : "TotalCases",
      "type" : "judge",
      "operator" : "=",
      "value_type" : "float",
      "value" : "0.1"
    }, {
      "key" : "build.CoverageRatio",
      "name" : "CoverageRatio",
      "type" : "judge",
      "operator" : "=",
      "value_type" : "float",
      "value" : "0.1"
    }
  ]
}
```

Example Responses

Status code: 200

OK

```
{
  "status" : true,
```

```
"rule_id" : "2965ed53fe804115816b781ab20fef3c"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

import java.util.List;
import java.util.ArrayList;

public class CreateRuleSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();

        CreateRuleRequest request = new CreateRuleRequest();
        request.withDomainId("{domain_id}");
        CreateRuleReq body = new CreateRuleReq();
        List<RuleProperty> listContentProperties = new ArrayList<>();
        listContentProperties.add(
            new RuleProperty()
                .withKey("build.PassRatio")
                .withType("judge")
                .withName("PassRatio")
                .withOperator("=")
                .withValue("0.1")
                .withValueType("float")
        );
        listContentProperties.add(
            new RuleProperty()
                .withKey("build.TotalCases")
                .withType("judge")
                .withName("TotalCases")
                .withOperator("=")
                .withValue("0.1")
                .withValueType("float")
        );
        listContentProperties.add(
            new RuleProperty()
                .withKey("build.CoverageRatio")
                .withType("judge")
        );
    }
}
```

```
.withName("CoverageRatio")
.withOperator("=")
.withValue("0.1")
.withValueType("float")
);
List<RuleContent> listbodyContent = new ArrayList<>();
listbodyContent.add(
    new RuleContent()
        .withGroupName("MavenUnitTest")
        .withProperties(listContentProperties)
);
body.withContent(listbodyContent);
body.withPluginVersion("0.0.15");
body.withPluginName("official_devcloud_cloudBuild");
body.withPluginId("official_devcloud_cloudBuild");
body.withLayoutContent("layout_content");
body.withName("Creating a Rule - 20231020170337");
body.withType("Build");
request.withBody(body);
try {
    CreateRuleResponse response = client.createRule(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = CreateRuleRequest()
        request.domain_id = "{domain_id}"
        listPropertiesContent = [
            RuleProperty(
                key="build.PassRatio",
                type="judge",
```

```
        name="PassRatio",
        operator="=",
        value="0.1",
        value_type="float"
    ),
    RuleProperty(
        key="build.TotalCases",
        type="judge",
        name="TotalCases",
        operator="=",
        value="0.1",
        value_type="float"
    ),
    RuleProperty(
        key="build.CoverageRatio",
        type="judge",
        name="CoverageRatio",
        operator="=",
        value="0.1",
        value_type="float"
    )
]
listContentbody = [
    RuleContent(
        group_name="MavenUnitTest",
        properties=listPropertiesContent
    )
]
request.body = CreateRuleReq(
    content=listContentbody,
    plugin_version="0.0.15",
    plugin_name="official_devcloud_cloudBuild",
    plugin_id="official_devcloud_cloudBuild",
    layout_content="layout_content",
    name="Creating a Rule - 20231020170337",
    type="Build"
)
response = client.create_rule(request)
print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
```

```
Build()

client := codeartspipeline.NewCodeArtsPipelineClient(
    codeartspipeline.CodeArtsPipelineClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.CreateRuleRequest{}
request.DomainId = "{domain_id}"
operatorProperties:= "="
operatorProperties1:= "="
operatorProperties2:= "="
var listPropertiesContent = []model.RuleProperty{
    {
        Key: "build.PassRatio",
        Type: "judge",
        Name: "PassRatio",
        Operator: &operatorProperties,
        Value: "0.1",
        ValueType: "float",
    },
    {
        Key: "build.TotalCases",
        Type: "judge",
        Name: "TotalCases",
        Operator: &operatorProperties1,
        Value: "0.1",
        ValueType: "float",
    },
    {
        Key: "build.CoverageRatio",
        Type: "judge",
        Name: "CoverageRatio",
        Operator: &operatorProperties2,
        Value: "0.1",
        ValueType: "float",
    },
}
var listContentbody = []model.RuleContent{
    {
        GroupName: "MavenUnitTest",
        Properties: listPropertiesContent,
    },
}
pluginVersionCreateRuleReq:= "0.0.15"
pluginNameCreateRuleReq:= "official_devcloud_cloudBuild"
pluginIdCreateRuleReq:= "official_devcloud_cloudBuild"
request.Body = &model.CreateRuleReq{
    Content: listContentbody,
    PluginVersion: &pluginVersionCreateRuleReq,
    PluginName: &pluginNameCreateRuleReq,
    PluginId: &pluginIdCreateRuleReq,
    LayoutContent: "layout_content",
    Name: "Creating a Rule - 20231020170337",
    Type: "Build",
}
response, err := client.CreateRule(request)
if err == nil {
    fmt.Printf("%v\n", response)
} else {
    fmt.Println(err)
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.4.6 Querying Rule Usage

Function

This API is used to query rule usage.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v2/{domainId}/rules/{ruleId}/related/query

Table 4-484 Path Parameters

Parameter	Mandatory	Type	Description
domainId	Yes	String	Tenant ID.
ruleId	Yes	String	Rule ID.

Request Parameters

None

Response Parameters

Status code: 200

Table 4-485 Response body parameters

Parameter	Type	Description
rule_set_count	Integer	Number of policies.
project_count	Integer	Number of projects.
pipeline_count	Integer	Number of pipelines.

Example Requests

```
GET https://{endpoint}/v2/2d09f712e9504b61b034cc8f40e475a8/rules/  
597c7f2f775740a1bb522b03a16e6864/related/query
```

Example Responses

Status code: 200

Response body for querying rule usage.

```
{  
  "rule_set_count" : 0,  
  "project_count" : 0,  
  "pipeline_count" : 0  
}
```

Status Codes

Status Code	Description
200	Response body for querying rule usage.

Error Codes

See [Error Codes](#).

4.5 Tenant-Level Policy Management

4.5.1 Creating a Policy

Function

This API is used to create a policy.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v2/{domain_id}/tenant/rule-sets/create

Table 4-486 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-487 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Table 4-488 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Definition: Policy name. Constraints: The policy name can contain only letters, digits, hyphens (-), and underscores (_). Value range: Enter a maximum of 128 characters. Default value: N/A
rules	Yes	Array of RequestRuleInstance objects	Definition: Rule list. Constraints: N/A Value range: N/A Default value: N/A

Table 4-489 RequestRuleInstance

Parameter	Mandatory	Type	Description
id	No	String	Definition: Rule instance ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Parameter	Mandatory	Type	Description
is_valid	No	Boolean	Definition: Rule instance status. Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-490 Response body parameters

Parameter	Type	Description
status	Boolean	Definition: Whether the creation is successful. Value range: • true: The creation is successful. • false: The creation fails.
rule_set_id	String	Definition: Policy ID. Value range: The value consists of 32 characters, including digits and letters.

Status code: 400

Table 4-491 Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A

Parameter	Type	Description
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

```
POST https://{endpoint}/v2/ce8df55870164338a72d7e828a966a2a/tenant/rule-sets/create

{
  "name" : "Creating a Policy - 20231020171008",
  "rules" : [ {
    "id" : "425eba0deaf04596a74cf7967d7fc04d",
    "is_valid" : true
  } ]
}
```

Example Responses

Status code: 200

OK

```
{
  "status" : true,
  "rule_set_id" : "9e0145159fdd49238aa1fcdd5b8239f9"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

import java.util.List;
import java.util.ArrayList;

public class CreateStrategySolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");
    }
}
```

```
ICredential auth = new BasicCredentials()
    .withAk(ak)
    .withSk(sk);

CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
    .withCredential(auth)
    .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
    .build();
CreateStrategyRequest request = new CreateStrategyRequest();
request.withDomainId("{domain_id}");
CreateRuleSetReq body = new CreateRuleSetReq();
List<RequestRuleInstance> listbodyRules = new ArrayList<>();
listbodyRules.add(
    new RequestRuleInstance()
        .withId("425eba0deaf04596a74cf7967d7fc04d")
        .withIsValid(true)
);
body.withRules(listbodyRules);
body.withName("Creating a Policy - 20231020171008");
request.withBody(body);
try {
    CreateStrategyResponse response = client.createStrategy(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = CreateStrategyRequest()
        request.domain_id = "{domain_id}"
        listRulesbody = [
            RequestRuleInstance(
```

```
        id="425eba0deaf04596a74cf7967d7fc04d",
        is_valid=True
    )
]
request.body = CreateRuleSetReq(
    rules=listRulesbody,
    name="Creating a Policy - 20231020171008"
)
response = client.create_strategy(request)
print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.CreateStrategyRequest{}
    request.DomainId = "{domain_id}"
    idRules:= "425eba0deaf04596a74cf7967d7fc04d"
    isValidRules:= true
    var listRulesbody = []model.RequestRuleInstance{
        {
            Id: &idRules,
            IsValid: &isValidRules,
        },
    }
    request.Body = &model.CreateRuleSetReq{
        Rules: listRulesbody,
        Name: "Creating a Policy - 20231020171008",
    }
    response, err := client.CreateStrategy(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.5.2 Creating a Tenant-Level Open-Source Governance Policy

Function

This API is used to create a tenant-level open source governance policy.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v2/{domain_id}/tenant/open-source/rule-sets/create

Table 4-492 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-493 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Table 4-494 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Definition: Name of an open-source governance policy. Constraints: The policy name can contain only letters, digits, hyphens (-), and underscores (_). Value range: Enter a maximum of 128 characters. Default value: N/A
content	Yes	OpenSourceRuleContent object	Definition: Details about an open-source governance policy rule. Constraints: N/A Value range: N/A Default value: N/A

Table 4-495 OpenSourceRuleContent

Parameter	Mandatory	Type	Description
version_set	No	VersionSetProperty object	Definition: Open-source dependency. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
security	No	SecurityProperty object	Definition: Vulnerability. Constraints: N/A Value range: N/A Default value: N/A
license	No	LicenseProperty object	Definition: License. Constraints: N/A Value range: N/A Default value: N/A

Table 4-496 VersionSetProperty

Parameter	Mandatory	Type	Description
enable	No	Boolean	Definition: Whether to enable the rule. Constraints: N/A Value range: • true: enabled. • false: disabled. Default value: N/A
rules	No	Array of VersionSetRule objects	Definition: Rule list. Constraints: N/A Value range: N/A Default value: N/A

Table 4-497 VersionSetRule

Parameter	Mandatory	Type	Description
enable	No	Boolean	Definition: Whether to enable. Constraints: N/A Value range: • true: enabled. • false: disabled. Default value: N/A
ecosystem	No	String	Definition: Dependency type. Constraints: N/A Value range: N/A Default value: N/A
package_name	No	String	Definition: Package name. Constraints: N/A Value range: N/A Default value: N/A
package_version	No	String	Definition: Package version. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
description	No	String	Definition: Rule description. Constraints: N/A Value range: N/A Default value: N/A
predicate	No	String	Definition: Comparison rule. Constraints: N/A Value range: N/A Default value: N/A

Table 4-498 SecurityProperty

Parameter	Mandatory	Type	Description
enable	No	Boolean	Definition: Whether to enable the rule. Constraints: N/A Value range: • true: enabled. • false: disabled. Default value: N/A
rules	No	SecurityRule object	Definition: Rule details. Constraints: N/A Value range: N/A Default value: N/A

Table 4-499 SecurityRule

Parameter	Mandatory	Type	Description
severity	No	severity object	Definition: Vulnerability severity. Constraints: N/A Value range: N/A Default value: N/A
cve	No	cve object	Definition: Vulnerability ID. Constraints: N/A Value range: N/A Default value: N/A

Table 4-500 severity

Parameter	Mandatory	Type	Description
enable	No	Boolean	Definition: Whether to enable the rule. Constraints: N/A Value range: • true: enabled. • false: disabled. Default value: N/A

Parameter	Mandatory	Type	Description
values	No	Array of strings	Definition: Vulnerability severity. Constraints: N/A Value range: N/A Default value: N/A

Table 4-501 cve

Parameter	Mandatory	Type	Description
enable	No	Boolean	Definition: Whether to enable the rule. Constraints: N/A Value range: • true: enabled. • false: disabled. Default value: N/A
values	No	Array of strings	Definition: Vulnerability ID. Constraints: N/A Value range: N/A Default value: N/A

Table 4-502 LicenseProperty

Parameter	Mandatory	Type	Description
enable	No	Boolean	Definition: Whether to enable. Constraints: N/A Value range: • true: enabled. • false: disabled. Default value: N/A
rules	No	Array of rules objects	Definition: Rule list. Constraints: N/A Value range: N/A Default value: N/A

Table 4-503 rules

Parameter	Mandatory	Type	Description
values	No	Array of strings	Definition: License details. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
predicate	No	String	Definition: Comparison rule. Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-504 Response body parameters

Parameter	Type	Description
status	Boolean	Definition: Whether the update is successful. Value range: • true: The update is successful. • false: The update fails.
rule_set_id	String	Definition: Policy ID. Value range: The value consists of 32 characters, including digits and letters.

Status code: 400

Table 4-505 Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A

Parameter	Type	Description
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

None

Example Responses

Status code: 200

OK

```
{
  "status" : true,
  "rule_set_id" : "9e0145159fdd49238aa1fcdd5b8239f9"
}
```

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.5.3 Modifying a Policy

Function

This API is used to modify a policy.

Calling Method

For details, see [Calling APIs](#).

URI

PUT /v2/{domain_id}/tenant/rule-sets/{rule_set_id}/update

Table 4-506 Path Parameters

Parameter	Mandatory	Type	Description
rule_set_id	Yes	String	Definition: Policy ID, which is the unique identifier of a policy. Obtain the policy ID by calling the API for querying policies . data.id indicates the policy ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-507 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Table 4-508 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Definition: Policy name. Constraints: The policy name can contain only letters, digits, hyphens (-), and underscores (_). Value range: Enter a maximum of 128 characters. Default value: N/A
rules	No	Array of UpdateRuleInstance objects	Definition: Rules in a policy. Constraints: N/A Value range: N/A Default value: N/A

Table 4-509 UpdateRuleInstance

Parameter	Mandatory	Type	Description
id	No	String	Definition: Rule ID, which is the unique identifier of a rule. Obtain the rule ID by calling the API for obtaining rules by page . data.id indicates the rule ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
is_valid	No	Boolean	Definition: Rule status. Constraints: N/A Value range: • true: enabled. • false: disabled. Default value: N/A

Response Parameters

Status code: 200

Table 4-510 Response body parameters

Parameter	Type	Description
status	Boolean	Definition: Whether the calling is successful. Value range: • true: The calling is successful. • false: The calling fails.

Parameter	Type	Description
rule_set_id	String	Definition: Policy ID, which is the unique identifier of a policy. Obtain the policy ID by calling the API for querying policies . data.id indicates the policy ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Status code: 400

Table 4-511 Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

```
PUT https://{endpoint}/v2/ce8df55870164338a72d7e828a966a2a/tenant/rule-sets/  
6cb18ee5ca1c48caa335706e0e5ee288/update
```

```
{  
  "name" : "Create a tenant-level policy",  
  "rules" : [ {  
    "id" : "097f315044244c9193f1e3f1fba7979d",  
    "is_valid" : true  
  }, {  
    "id" : "80cfcff078074b8aa7951d7b67b3137b",  
    "is_valid" : true  
  } ]  
}
```

Example Responses

Status code: 200

OK

```
{
  "status" : true,
  "rule_set_id" : "6cb18ee5ca1c48caa335706e0e5ee288"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

import java.util.List;
import java.util.ArrayList;

public class UpdateStrategySolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        UpdateStrategyRequest request = new UpdateStrategyRequest();
        request.withRuleSetId("{rule_set_id}");
        request.withDomainId("{domain_id}");
        UpdateRuleSetReq body = new UpdateRuleSetReq();
        List<UpdateRuleInstance> listbodyRules = new ArrayList<>();
        listbodyRules.add(
            new UpdateRuleInstance()
                .withId("097f315044244c9193f1e3f1fba7979d")
                .withIsValid(true)
        );
        listbodyRules.add(
            new UpdateRuleInstance()
                .withId("80cfcf078074b8aa7951d7b67b3137b")
                .withIsValid(true)
        );
        body.withRules(listbodyRules);
        body.withName("Create a tenant-level policy.");
```

```
request.withBody(body);
try {
    UpdateStrategyResponse response = client.updateStrategy(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = UpdateStrategyRequest()
        request.rule_set_id = "{rule_set_id}"
        request.domain_id = "{domain_id}"
        listRulesbody = [
            UpdateRuleInstance(
                id="097f315044244c9193f1e3f1fba7979d",
                is_valid=True
            ),
            UpdateRuleInstance(
                id="80cfcff078074b8aa7951d7b67b3137b",
                is_valid=True
            )
        ]
        request.body = UpdateRuleSetReq(
            rules=listRulesbody,
            name="Create a tenant-level policy."
        )
        response = client.update_strategy(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UpdateStrategyRequest{}
    request.RuleSetId = "{rule_set_id}"
    request.DomainId = "{domain_id}"
    idRules:= "097f315044244c9193f1e3f1fba7979d"
    isValidRules:= true
    idRules1:= "80cfcff078074b8aa7951d7b67b3137b"
    isValidRules1:= true
    var listRulesbody = []model.UpdateRuleInstance{
        {
            Id: &idRules,
            IsValid: &isValidRules,
        },
        {
            Id: &idRules1,
            IsValid: &isValidRules1,
        },
    }
    request.Body = &model.UpdateRuleSetReq{
        Rules: &listRulesbody,
        Name: "Create a tenant-level policy.",
    }
    response, err := client.UpdateStrategy(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.5.4 Modifying a Tenant-Level Open-Source Governance Policy

Function

This API is used to modify a tenant-level open source governance policy.

Calling Method

For details, see [Calling APIs](#).

URI

PUT /v2/{domain_id}/tenant/open-source/rule-sets/{rule_set_id}/update

Table 4-512 Path Parameters

Parameter	Mandatory	Type	Description
rule_set_id	Yes	String	Definition: Policy ID, which is the unique identifier of a policy. Obtain the policy ID by calling the API for querying policies . data.id indicates the policy ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-513 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Table 4-514 Request body parameters

Parameter	Mandatory	Type	Description
name	No	String	Definition: Policy name. Constraints: The policy name can contain only letters, digits, hyphens (-), and underscores (_). Value range: Enter a maximum of 128 characters. Default value: N/A
content	No	OpenSourceRuleContent object	Definition: Details about an open-source governance policy rule. Constraints: N/A Value range: N/A Default value: N/A

Table 4-515 OpenSourceRuleContent

Parameter	Mandatory	Type	Description
version_set	No	VersionSetProperty object	Definition: Open-source dependency. Constraints: N/A Value range: N/A Default value: N/A
security	No	SecurityProperty object	Definition: Vulnerability. Constraints: N/A Value range: N/A Default value: N/A
license	No	LicenseProperty object	Definition: License. Constraints: N/A Value range: N/A Default value: N/A

Table 4-516 VersionSetProperty

Parameter	Mandatory	Type	Description
enable	No	Boolean	Definition: Whether to enable the rule. Constraints: N/A Value range: • true: enabled. • false: disabled. Default value: N/A
rules	No	Array of VersionSetRule objects	Definition: Rule list. Constraints: N/A Value range: N/A Default value: N/A

Table 4-517 VersionSetRule

Parameter	Mandatory	Type	Description
enable	No	Boolean	Definition: Whether to enable. Constraints: N/A Value range: • true: enabled. • false: disabled. Default value: N/A

Parameter	Mandatory	Type	Description
ecosystem	No	String	Definition: Dependency type. Constraints: N/A Value range: N/A Default value: N/A
package_name	No	String	Definition: Package name. Constraints: N/A Value range: N/A Default value: N/A
package_version	No	String	Definition: Package version. Constraints: N/A Value range: N/A Default value: N/A
description	No	String	Definition: Rule description. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
predicate	No	String	Definition: Comparison rule. Constraints: N/A Value range: N/A Default value: N/A

Table 4-518 SecurityProperty

Parameter	Mandatory	Type	Description
enable	No	Boolean	Definition: Whether to enable the rule. Constraints: N/A Value range: • true: enabled. • false: disabled. Default value: N/A
rules	No	SecurityRule object	Definition: Rule details. Constraints: N/A Value range: N/A Default value: N/A

Table 4-519 SecurityRule

Parameter	Mandatory	Type	Description
severity	No	severity object	Definition: Vulnerability severity. Constraints: N/A Value range: N/A Default value: N/A
cve	No	cve object	Definition: Vulnerability ID. Constraints: N/A Value range: N/A Default value: N/A

Table 4-520 severity

Parameter	Mandatory	Type	Description
enable	No	Boolean	Definition: Whether to enable the rule. Constraints: N/A Value range: • true: enabled. • false: disabled. Default value: N/A

Parameter	Mandatory	Type	Description
values	No	Array of strings	Definition: Vulnerability severity. Constraints: N/A Value range: N/A Default value: N/A

Table 4-521 cve

Parameter	Mandatory	Type	Description
enable	No	Boolean	Definition: Whether to enable the rule. Constraints: N/A Value range: • true: enabled. • false: disabled. Default value: N/A
values	No	Array of strings	Definition: Vulnerability ID. Constraints: N/A Value range: N/A Default value: N/A

Table 4-522 LicenseProperty

Parameter	Mandatory	Type	Description
enable	No	Boolean	Definition: Whether to enable. Constraints: N/A Value range: • true: enabled. • false: disabled. Default value: N/A
rules	No	Array of rules objects	Definition: Rule list. Constraints: N/A Value range: N/A Default value: N/A

Table 4-523 rules

Parameter	Mandatory	Type	Description
values	No	Array of strings	Definition: License details. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
predicate	No	String	Definition: Comparison rule. Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-524 Response body parameters

Parameter	Type	Description
status	Boolean	Definition: Whether the calling is successful. Value range: • true: The calling is successful. • false: The calling fails.
rule_set_id	String	Definition: Policy ID, which is the unique identifier of a policy. Obtain the policy ID by calling the API for querying policies . data.id indicates the policy ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Status code: 400

Table 4-525 Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

None

Example Responses

Status code: 200

OK

```
{
  "status" : true,
  "rule_set_id" : "6cb18ee5ca1c48caa335706e0e5ee288"
}
```

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.5.5 Obtaining Policy Details

Function

This API is used to obtain policy details.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v2/{domain_id}/tenant/rule-sets/{rule_set_id}/detail

Table 4-526 Path Parameters

Parameter	Mandatory	Type	Description
rule_set_id	Yes	String	Definition: Policy ID. Constraints: N/A Value range: N/A Default value: N/A
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Table 4-527 Query Parameters

Parameter	Mandatory	Type	Description
cloud_project_id	No	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-528 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-529 Response body parameters

Parameter	Type	Description
id	String	Definition: Rule template instance ID. Value range: The value consists of 32 characters, including digits and letters.
name	String	Definition: Rule template instance name. Value range: N/A
type	String	Definition: Rule template type. Value range: N/A
version	String	Definition: Rule template policy. Value range: N/A
creator	String	Definition: Policy creator. Value range: N/A
create_time	String	Definition: Policy creation time. Value range: N/A
updater	String	Definition: User who last updated the policy. Value range: N/A
update_time	String	Definition: Time when the policy was last updated. Value range: N/A

Parameter	Type	Description
is_valid	Boolean	Definition: Whether the policy takes effect. Value range: • true: The policy takes effect. • false: The policy does not take effect.
rule_instances	Array of RuleInstance objects	Definition: Rule instance set. Value range: N/A
level	String	Definition: Effective level of a rule instance. Value range: N/A
is_public	Boolean	Definition: Whether the rule instance is system-level. Value range: • true: The rule instance is system-level. • false: The rule instance is not system-level.
is_legacy	Boolean	Definition: Whether the rule instance data is from version 1.0. Value range: • true: The rule instance data is from version 1.0. • false: The rule instance data is not from version 1.0.

Table 4-530 RuleInstance

Parameter	Type	Description
id	String	Definition: Rule instance ID. Value range: The value consists of 32 characters, including digits and letters.
type	String	Definition: Rule type. Value range: N/A
name	String	Definition: Rule name. Value range: N/A
version	String	Definition: Rule version. Value range: N/A
plugin_id	String	Definition: Extension ID. Value range: N/A
plugin_name	String	Definition: Extension name. Value range: N/A
plugin_version	String	Definition: Extension version number. Value range: N/A
is_valid	Boolean	Definition: Whether the rule takes effect. Value range: • true: The rule takes effect. • false: The rule does not take effect.

Parameter	Type	Description
editable	Boolean	Definition: Whether the rule can be edited. Value range: • true: The rule can be edited. • false: The rule cannot be edited.
content	Array of RuleInstanceContent objects	Definition: Rule instance set. Value range: N/A
parent	RuleSet object	Definition: Parent instance attribute. Value range: N/A.

Table 4-531 RuleInstanceContent

Parameter	Type	Description
group_name	String	Definition: Group name. Value range: N/A
editable	Boolean	Definition: Editable or not. Value range: N/A
type	String	Definition: Group type. Value range: N/A
can_modify_when_inherit	Boolean	Definition: Whether the threshold of the inherited sub-policy can be modified. Value range: • true: The threshold can be modified. • false: The threshold cannot be modified.

Parameter	Type	Description
properties	Array of RuleInstanceProperty objects	Definition: Rule attributes. Constraints: N/A Value range: N/A Default value: N/A

Table 4-532 RuleInstanceProperty

Parameter	Type	Description
key	String	Definition: Rule attribute key. Value range: N/A
type	String	Definition: Rule type. Value range: N/A
name	String	Definition: Displayed name. Value range: N/A
operator	String	Definition: Comparison operator. Value range: N/A
value	String	Definition: Attribute value. Value range: N/A
value_type	String	Definition: Data type. Value range: N/A

Table 4-533 RuleSet

Parameter	Type	Description
id	String	Definition: Rule template instance ID. Value range: N/A
name	String	Definition: Rule template instance name. Value range: N/A
type	String	Definition: Rule instance type. Value range: N/A
version	String	Definition: Rule instance version. Value range: N/A
operator	String	Definition: Latest operator of the rule instance. Value range: N/A
operate_time	Long	Definition: Time when the rule was last operated. Value range: N/A
is_valid	Boolean	Definition: Whether the rule instance takes effect. Value range: • true: The rule takes effect. • false: The rule does not take effect.
level	String	Definition: Effective level of a rule instance. Value range: N/A

Parameter	Type	Description
is_public	Boolean	Definition: Whether the rule instance is system-level. Value range: • true: The rule instance is system-level. • false: The rule instance is not system-level.
is_legacy	Boolean	Definition: Whether the rule instance data is from version 1.0. Value range: • true: The rule instance data is from version 1.0. • false: The rule instance data is not from version 1.0.

Status code: 400

Table 4-534 Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

```
GET https://{endpoint}/v2/ce8df55870164338a72d7e828a966a2a/tenant/rule-sets/6cb18ee5ca1c48caa335706e0e5ee288/detail?cloud_project_id=
```

Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class ShowStrategySolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowStrategyRequest request = new ShowStrategyRequest();
        request.withRuleSetId("{rule_set_id}");
        request.withDomainId("{domain_id}");
        try {
            ShowStrategyResponse response = client.showStrategy(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
```

```
# The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
variables and decrypted during use to ensure security.
# In this example, AK and SK are stored in environment variables for authentication. Before running this
example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
ak = os.environ["CLOUD_SDK_AK"]
sk = os.environ["CLOUD_SDK_SK"]

credentials = BasicCredentials(ak, sk)

client = CodeArtsPipelineClient.new_builder() \
    .with_credentials(credentials) \
    .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
    .build()

try:
    request = ShowStrategyRequest()
    request.rule_set_id = "{rule_set_id}"
    request.domain_id = "{domain_id}"
    response = client.show_strategy(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowStrategyRequest{}
    request.RuleSetId = "{rule_set_id}"
    request.DomainId = "{domain_id}"
    response, err := client.ShowStrategy(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.5.6 Obtaining Details of Open-Source Governance Policies

Function

This API is used to obtain details of open-source governance policies.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v2/{domain_id}/tenant/open-source/rule-sets/{rule_set_id}/detail

Table 4-535 Path Parameters

Parameter	Mandatory	Type	Description
rule_set_id	Yes	String	Definition: Policy ID. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Table 4-536 Query Parameters

Parameter	Mandatory	Type	Description
cloud_project_id	No	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-537 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200**Table 4-538** Response body parameters

Parameter	Type	Description
id	String	Definition: Rule template instance ID. Value range: The value consists of 32 characters, including digits and letters.
name	String	Definition: Rule template instance name. Value range: N/A
type	String	Definition: Rule template type. Value range: N/A

Parameter	Type	Description
version	String	Definition: Rule template policy. Value range: N/A
creator	String	Definition: Policy creator. Value range: N/A
create_time	String	Definition: Policy creation time. Value range: N/A
updater	String	Definition: User who last updated the policy. Value range: N/A
update_time	String	Definition: Time when the policy was last updated. Value range: N/A
is_valid	Boolean	Definition: Whether the policy takes effect. Value range: • true: The policy takes effect. • false: The policy does not take effect.
rule_instances	Array of RuleInstance objects	Definition: Rule instance set. Value range: N/A
level	String	Definition: Effective level of a rule instance. Value range: N/A

Parameter	Type	Description
is_public	Boolean	Definition: Whether the rule instance is system-level. Value range: • true: The rule instance is system-level. • false: The rule instance is not system-level.
is_legacy	Boolean	Definition: Whether the rule instance data is from version 1.0. Value range: • true: The rule instance data is from version 1.0. • false: The rule instance data is not from version 1.0.

Table 4-539 RuleInstance

Parameter	Type	Description
id	String	Definition: Rule instance ID. Value range: The value consists of 32 characters, including digits and letters.
type	String	Definition: Rule type. Value range: N/A
name	String	Definition: Rule name. Value range: N/A
version	String	Definition: Rule version. Value range: N/A

Parameter	Type	Description
plugin_id	String	Definition: Extension ID. Value range: N/A
plugin_name	String	Definition: Extension name. Value range: N/A
plugin_version	String	Definition: Extension version number. Value range: N/A
is_valid	Boolean	Definition: Whether the rule takes effect. Value range: • true: The rule takes effect. • false: The rule does not take effect.
editable	Boolean	Definition: Whether the rule can be edited. Value range: • true: The rule can be edited. • false: The rule cannot be edited.
content	Array of RuleInstanceContent objects	Definition: Rule instance set. Value range: N/A
parent	RuleSet object	Definition: Parent instance attribute. Value range: N/A.

Table 4-540 RuleInstanceContent

Parameter	Type	Description
group_name	String	Definition: Group name. Value range: N/A
editable	Boolean	Definition: Editable or not. Value range: N/A
type	String	Definition: Group type. Value range: N/A
can_modify_when_inherit	Boolean	Definition: Whether the threshold of the inherited sub-policy can be modified. Value range: • true: The threshold can be modified. • false: The threshold cannot be modified.
properties	Array of RuleInstanceProperty objects	Definition: Rule attributes. Constraints: N/A Value range: N/A Default value: N/A

Table 4-541 RuleInstanceProperty

Parameter	Type	Description
key	String	Definition: Rule attribute key. Value range: N/A

Parameter	Type	Description
type	String	Definition: Rule type. Value range: N/A
name	String	Definition: Displayed name. Value range: N/A
operator	String	Definition: Comparison operator. Value range: N/A
value	String	Definition: Attribute value. Value range: N/A
value_type	String	Definition: Data type. Value range: N/A

Table 4-542 RuleSet

Parameter	Type	Description
id	String	Definition: Rule template instance ID. Value range: N/A
name	String	Definition: Rule template instance name. Value range: N/A
type	String	Definition: Rule instance type. Value range: N/A

Parameter	Type	Description
version	String	Definition: Rule instance version. Value range: N/A
operator	String	Definition: Latest operator of the rule instance. Value range: N/A
operate_time	Long	Definition: Time when the rule was last operated. Value range: N/A
is_valid	Boolean	Definition: Whether the rule instance takes effect. Value range: • true: The rule takes effect. • false: The rule does not take effect.
level	String	Definition: Effective level of a rule instance. Value range: N/A
is_public	Boolean	Definition: Whether the rule instance is system-level. Value range: • true: The rule instance is system-level. • false: The rule instance is not system-level.
is_legacy	Boolean	Definition: Whether the rule instance data is from version 1.0. Value range: • true: The rule instance data is from version 1.0. • false: The rule instance data is not from version 1.0.

Status code: 400

Table 4-543 Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

None

Example Responses

Status code: 200

OK

```
{
  "id" : "6cb18ee5ca1c48caa335706e0e5ee288",
  "name" : "Creating a Tenant-Level Policy",
  "version" : "c0ca09cfda8a426bbdb8df4c34c4831e",
  "is_valid" : true,
  "creator" : "847a5317086c41798469d0868535943a",
  "create_time" : "2023-09-25T19:32:14",
  "updater" : "847a5317086c41798469d0868535943a",
  "update_time" : "2023-10-20T17:12:41",
  "rule_instances" : [ {
    "id" : "80cfcff078074b8aa7951d7b67b3137b",
    "type" : "Gate",
    "name" : "API auto-created rule: dyEnd",
    "is_valid" : true,
    "version" : "8128ca663cdc4cea9a6dc05e53ae0a55",
    "plugin_id" : "official_devcloud_apiTest",
    "plugin_name" : "official_devcloud_apiTest",
    "plugin_version" : "0.0.6",
    "content" : [ {
      "group_name" : "API test pass rate gate",
      "can_modify_when_inherit" : false,
      "properties" : [ {
        "key" : "apitest",
        "type" : "Judge",
        "name" : "API Test Pass Rate",
        "value_type" : "float",
        "value" : "0.5",
        "operator" : ">="
      } ]
    } ]
  } ]
}
```

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.5.7 Obtaining the Policy List

Function

This API is used to obtain the policy list.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v2/{domain_id}/tenant/rule-sets/query

Table 4-544 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Table 4-545 Query Parameters

Parameter	Mandatory	Type	Description
offset	Yes	Integer	Definition: Offset where the query starts. Constraints: N/A Value range: The offset value must be no less than 0. Default value: N/A
limit	Yes	Integer	Definition: Number of records of each query. Constraints: N/A Value range: The value is no less than 0. Default value: N/A
include_tenant_rule_set	Yes	Boolean	Definition: Whether tenant-level rules are included. Constraints: N/A Value range: • true: Tenant-level rules are included. • false: Tenant-level rules are not included. Default value: N/A

Parameter	Mandatory	Type	Description
name	No	String	Definition: Policy name, which can be used for fuzzy search. Constraints: The policy name can contain only characters, letters, digits, hyphens (-), and underscores (_). Value range: Enter a maximum of 128 characters. Default value: N/A
is_valid	No	Boolean	Definition: Whether the policy is valid. Constraints: N/A Value range: • true: The policy is valid. • false: The policy is invalid. Default value: N/A
type	No	String	Definition: Policy type. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
cloud_project_id	No	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-546 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-547 Response body parameters

Parameter	Type	Description
data	Array of RuleSet objects	Definition: List of rule instances. Value range: N/A
total	Long	Definition: Total number of rules. Value range: N/A

Table 4-548 RuleSet

Parameter	Type	Description
id	String	Definition: Rule template instance ID. Value range: N/A
name	String	Definition: Rule template instance name. Value range: N/A
type	String	Definition: Rule instance type. Value range: N/A
version	String	Definition: Rule instance version. Value range: N/A
operator	String	Definition: Latest operator of the rule instance. Value range: N/A

Parameter	Type	Description
operate_time	Long	Definition: Time when the rule was last operated. Value range: N/A
is_valid	Boolean	Definition: Whether the rule instance takes effect. Value range: • true: The rule takes effect. • false: The rule does not take effect.
level	String	Definition: Effective level of a rule instance. Value range: N/A
is_public	Boolean	Definition: Whether the rule instance is system-level. Value range: • true: The rule instance is system-level. • false: The rule instance is not system-level.
is_legacy	Boolean	Definition: Whether the rule instance data is from version 1.0. Value range: • true: The rule instance data is from version 1.0. • false: The rule instance data is not from version 1.0.

Status code: 400

Table 4-549 Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

```
GET https://{endpoint}/v2/ce8df55870164338a72d7e828a966a2a/tenant/rule-sets/query?
name=&limit=2&offset=1&cloud_project_id=
```

Example Responses

Status code: 200

OK

```
{
  "data": [ {
    "id": "30782f30c92e4c1dbc3c596075970d67",
    "name": "Creating a Tenant-Level Policy -apitest-rKaG on DJtest",
    "level": "tenant",
    "is_valid": true,
    "version": "67e915e472554f719abe513c28728d9f",
    "operator": "xxx",
    "is_public": false,
    "operate_time": 1692695390000
  }, {
    "id": "4f5fb96022974a2781174584f799d8c2",
    "name": "Creating a Tenant-Level Policy on DJtest-apitest-S190",
    "level": "tenant",
    "is_valid": true,
    "version": "61ebfef577c34406b5647ac1d83e7bb8",
    "operator": "xxx",
    "is_public": false,
    "operate_time": 1692695390000
  } ],
  "total": 333
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
```



```
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class ListStrategySolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        ListStrategyRequest request = new ListStrategyRequest();
        request.withDomainId("{domain_id}");
        try {
            ListStrategyResponse response = client.listStrategy(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.getenv("CLOUD_SDK_AK")
    sk = os.getenv("CLOUD_SDK_SK")

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
```

```
.with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
.build()

try:
    request = ListStrategyRequest()
    request.domain_id = "{domain_id}"
    response = client.list_strategy(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListStrategyRequest{}
    request.DomainId = "{domain_id}"
    response, err := client.ListStrategy(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.5.8 Obtaining Open-Source Governance Policies

Function

This API is used to obtain open-source governance policies.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v2/{domain_id}/tenant/open-source/rule-sets/query

Table 4-550 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Table 4-551 Query Parameters

Parameter	Mandatory	Type	Description
cloud_project_id	No	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-552 Request body parameters

Parameter	Mandatory	Type	Description
name	No	String	Definition: Name of an open-source governance policy. Constraints: The policy name can contain only characters, letters, digits, hyphens (-), and underscores (_). Value range: Enter a maximum of 128 characters. Default value: N/A

Parameter	Mandatory	Type	Description
creatorName	No	String	Definition: Name of the creator of an open-source governance policy. The name can be used for fuzzy query. Constraints: N/A Value range: N/A Default value: N/A
limit	No	Integer	Definition: Number of records of each query. Constraints: N/A Value range: The value is no less than 0. Default value: N/A
offset	No	Integer	Definition: Offset where the query starts. Constraints: N/A Value range: The offset value must be no less than 0. Default value: N/A

Response Parameters

Status code: 200

Table 4-553 Response body parameters

Parameter	Type	Description
data	Array of SimpleRuleSetVO objects	Definition: Policy details. Value range: N/A
total	Long	Definition: Total number of items. Value range: The value is no less than 0.

Table 4-554 SimpleRuleSetVO

Parameter	Type	Description
id	String	Definition: Policy ID. Value range: N/A
name	String	Definition: Policy name. Value range: Enter a maximum of 128 characters.
level	String	Definition: Scope identifier. Value range: tenant: tenant. • others: non-tenant.
is_valid	Boolean	Definition: Whether this function takes effect. Value range: • true: The function takes effect. • false: The function does not take effect.
version	String	Definition: Rule template version. Value range: N/A

Parameter	Type	Description
operator	String	Definition: Latest operator. Value range: N/A
is_public	Boolean	Definition: Whether the policy is a system policy. Value range: • true: The policy is a system policy. • false: The policy is not a system policy.
is_legacy	Boolean	Definition: Whether the data is from version 1.0. Value range: • true: The data is from version 1.0. • false: The data is not from version 1.0.
operate_time	Integer	Definition: Last operation time. Value range: N/A

Status code: 400**Table 4-555** Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.5.9 Deleting a Policy

Function

This API is used to delete a policy.

Calling Method

For details, see [Calling APIs](#).

URI

DELETE /v2/{domain_id}/tenant/rule-sets/{rule_set_id}/delete

Table 4-556 Path Parameters

Parameter	Mandatory	Type	Description
rule_set_id	Yes	String	Definition: Policy ID, which is the unique identifier of a policy. Obtain the policy ID by calling the API for querying policies . data.id indicates the policy ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-557 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-558 Response body parameters

Parameter	Type	Description
status	Boolean	Definition: Whether the deletion is successful. Value range: • true: The deletion is successful. • false: The deletion fails.

Status code: 400

Table 4-559 Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A

Parameter	Type	Description
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

```
DELETE https://{endpoint}/v2/ce8df55870164338a72d7e828a966a2a/tenant/rule-sets/  
7b69942175014a5ba40830c8f90b210a/delete
```

Example Responses

Status code: 200

OK

```
{  
  "status" : true  
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;  
  
import com.huaweicloud.sdk.core.auth.ICredential;  
import com.huaweicloud.sdk.core.auth.BasicCredentials;  
import com.huaweicloud.sdk.core.exception.ConnectionException;  
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;  
import com.huaweicloud.sdk.core.exception.ServiceResponseException;  
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;  
import com.huaweicloud.sdk.codeartspipeline.v2.*;  
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;  
  
public class DeleteStrategySolution {  
  
    public static void main(String[] args) {  
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great  
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or  
        // environment variables and decrypted during use to ensure security.  
        // In this example, AK and SK are stored in environment variables for authentication. Before running  
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
        String ak = System.getenv("CLOUD_SDK_AK");  
        String sk = System.getenv("CLOUD_SDK_SK");  
  
        ICredential auth = new BasicCredentials()  
            .withAk(ak)  
            .withSk(sk);  
  
        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()  
            .withCredential(auth)  
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))  
            .build();  
        DeleteStrategyRequest request = new DeleteStrategyRequest();
```

```
request.withRuleSetId("{rule_set_id}");
request.withDomainId("{domain_id}");
try {
    DeleteStrategyResponse response = client.deleteStrategy(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = DeleteStrategyRequest()
        request.rule_set_id = "{rule_set_id}"
        request.domain_id = "{domain_id}"
        response = client.delete_strategy(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)
```

```
func main() {  
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    // variables and decrypted during use to ensure security.  
    // In this example, AK and SK are stored in environment variables for authentication. Before running this  
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak := os.Getenv("CLOUD_SDK_AK")  
    sk := os.Getenv("CLOUD_SDK_SK")  
  
    auth := basic.NewCredentialsBuilder().  
        WithAk(ak).  
        WithSk(sk).  
        Build()  
  
    client := codeartspipeline.NewCodeArtsPipelineClient(  
        codeartspipeline.CodeArtsPipelineClientBuilder().  
            WithRegion(region.ValueOf("<YOUR REGION>")).  
            WithCredential(auth).  
            Build())  
  
    request := &model.DeleteStrategyRequest{}  
    request.RuleSetId = "{rule_set_id}"  
    request.DomainId = "{domain_id}"  
    response, err := client.DeleteStrategy(request)  
    if err == nil {  
        fmt.Printf("%+v\n", response)  
    } else {  
        fmt.Println(err)  
    }  
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.5.10 Deleting a Tenant-Level Open-source Governance Policy

Function

This API is used to delete a tenant-level open-source governance policy.

Calling Method

For details, see [Calling APIs](#).

URI

DELETE /v2/{domain_id}/tenant/open-source/rule-sets/{rule_set_id}/delete

Table 4-560 Path Parameters

Parameter	Mandatory	Type	Description
rule_set_id	Yes	String	Definition: Policy ID, which is the unique identifier of a policy. Obtain the policy ID by calling the API for querying policies . data.id indicates the policy ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-561 Response body parameters

Parameter	Type	Description
status	Boolean	Definition: Whether the deletion is successful. Value range: • true: The deletion is successful. • false: The deletion fails.

Status code: 400

Table 4-562 Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

None

Example Responses

Status code: 200

OK

```
{  
  "status" : true  
}
```

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.5.11 Enabling a Policy

Function

This API is used to modify the policy status.

Calling Method

For details, see [Calling APIs](#).

URI

PUT /v2/{domain_id}/tenant/rule-sets/{rule_set_id}/switch

Table 4-563 Path Parameters

Parameter	Mandatory	Type	Description
rule_set_id	Yes	String	Definition: Policy ID, which is the unique identifier of a policy. Obtain the policy ID by calling the API for querying policies . data.id indicates the policy ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-564 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Table 4-565 Request body parameters

Parameter	Mandatory	Type	Description
is_valid	Yes	Boolean	Definition: Rule template instance status. Constraints: N/A Value range: • true: enabled. • false: disabled. Default value: N/A

Response Parameters

Status code: 200

Table 4-566 Response body parameters

Parameter	Type	Description
status	Boolean	Definition: Whether the update is successful. Value range: • true: The update is successful. • false: The update fails.
rule_set_id	String	Definition: ID of the updated policy. Value range: N/A

Status code: 400**Table 4-567** Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

```
PUT https://{endpoint}/v2/ce8df55870164338a72d7e828a966a2a/tenant/rule-sets/  
6cb18ee5ca1c48caa335706e0e5ee288/switch  
  
{  
  "is_valid" : false  
}
```

Example Responses

Status code: 200

OK

```
{  
  "status" : true,  
  "rule_set_id" : "6cb18ee5ca1c48caa335706e0e5ee288"  
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class SwitchStrategySolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        SwitchStrategyRequest request = new SwitchStrategyRequest();
        request.withRuleSetId("{rule_set_id}");
        request.withDomainId("{domain_id}");
        UpdateRuleSetStatusReq body = new UpdateRuleSetStatusReq();
        body.withIsValid(false);
        request.withBody(body);
        try {
            SwitchStrategyResponse response = client.switchStrategy(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
```

```
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = SwitchStrategyRequest()
        request.rule_set_id = "{rule_set_id}"
        request.domain_id = "{domain_id}"
        request.body = UpdateRuleSetStatusReq(
            is_valid=False
        )
        response = client.switch_strategy(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.SwitchStrategyRequest{
        request.RuleSetId = "{rule_set_id}"
        request.DomainId = "{domain_id}"
        request.Body = &model.UpdateRuleSetStatusReq{
```

```
        IsValid: false,  
    }  
    response, err := client.SwitchStrategy(request)  
    if err == nil {  
        fmt.Printf("%v\n", response)  
    } else {  
        fmt.Println(err)  
    }  
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.5.12 Enabling or Disabling a Policy

Function

This API is used to enable or disable a policy.

Calling Method

For details, see [Calling APIs](#).

URI

PUT /v2/{domain_id}/tenant/open-source/rule-sets/{rule_set_id}/switch

Table 4-568 Path Parameters

Parameter	Mandatory	Type	Description
rule_set_id	Yes	String	Definition: Policy ID, which is the unique identifier of a policy. Obtain the policy ID by calling the API for querying policies . data.id indicates the policy ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-569 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Table 4-570 Request body parameters

Parameter	Mandatory	Type	Description
is_valid	Yes	Boolean	Definition: Rule template instance status. Constraints: N/A Value range: • true: enabled. • false: disabled. Default value: N/A

Response Parameters

Status code: 200

Table 4-571 Response body parameters

Parameter	Type	Description
status	Boolean	Definition: Whether the update is successful. Value range: • true: The update is successful. • false: The update fails.
rule_set_id	String	Definition: ID of the updated policy. Value range: N/A

Status code: 400

Table 4-572 Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK

Status Code	Description
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.5.13 Querying Policy Usage

Function

This API is used to query policy usage.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v2/{domainId}/tenant/rule-sets/{ruleSetId}/related/query

Table 4-573 Path Parameters

Parameter	Mandatory	Type	Description
domainId	Yes	String	Tenant ID.
ruleSetId	Yes	String	Policy ID.

Request Parameters

None

Response Parameters

Status code: 200

Table 4-574 Response body parameters

Parameter	Type	Description
project_count	Long	Definition: Number of projects. Value range: N/A
pipeline_count	Long	Definition: Number of pipelines. Value range: N/A

Example Requests

```
GET https://{endpoint}/v2/f9228e23118c4fa5a9c86493ea0cffc2/tenant/rule-sets/  
68b99a225e93441f8d5f111eba6cbf30/related/query
```

Example Responses

Status code: 200

Association information.

```
{  
  "project_count" : 0,  
  "pipeline_count" : 0  
}
```

Status Codes

Status Code	Description
200	Association information.

Error Codes

See [Error Codes](#).

4.5.14 Querying Information Related to a Policy

Function

This API is used to query information related to a policy.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v2/{domainId}/tenant/rule-sets/{ruleSetId}/children

Table 4-575 Path Parameters

Parameter	Mandatory	Type	Description
domainId	Yes	String	Tenant ID.
ruleSetId	Yes	String	Policy ID.

Table 4-576 Query Parameters

Parameter	Mandatory	Type	Description
limit	No	Integer	Policy ID.
offset	No	Integer	Policy ID.

Request Parameters

Table 4-577 Request body parameters

Parameter	Mandatory	Type	Description
limit	Yes	Integer	Page size.
offset	Yes	Integer	Definition: Offset where the query starts. Constraints: N/A Value range: The offset value must be no less than 0. Default value: 0.

Response Parameters

Status code: 200

Table 4-578 Response body parameters

Parameter	Type	Description
data	Array of SimpleRuleSetVO objects	Definition: Policy details. Value range: N/A
total	Long	Definition: Total number of items. Value range: The value is no less than 0.

Table 4-579 SimpleRuleSetVO

Parameter	Type	Description
id	String	Definition: Policy ID. Value range: N/A
name	String	Definition: Policy name. Value range: Enter a maximum of 128 characters.
level	String	Definition: Scope identifier. Value range: tenant: tenant. • others: non-tenant.
is_valid	Boolean	Definition: Whether this function takes effect. Value range: • true: The function takes effect. • false: The function does not take effect.
version	String	Definition: Rule template version. Value range: N/A

Parameter	Type	Description
operator	String	Definition: Latest operator. Value range: N/A
is_public	Boolean	Definition: Whether the policy is a system policy. Value range: • true: The policy is a system policy. • false: The policy is not a system policy.
is_legacy	Boolean	Definition: Whether the data is from version 1.0. Value range: • true: The data is from version 1.0. • false: The data is not from version 1.0.
operate_time	Integer	Definition: Last operation time. Value range: N/A

Example Requests

```
GET https://{endpoint}/v2/9dd3a6d966894e4399d3aafe3ceb4fad/tenant/rule-sets/  
68b99a225e93441f8d5f111eba6cbf30/children?limit=10&offset=0
```

Example Responses

Status code: 200

Response body for querying policy association information.

```
{  
  "data": [ {  
    "id": "f9228e23118c4fa5a9c86493ea0cffc2",  
    "name": "System policy",  
    "level": "tenant",  
    "is_valid": true,  
    "version": "ace33a17a73442e398fedc123d047da2",  
    "operator": "north5",  
    "is_public": true,  
    "is_legacy": null,  
    "operate_time": 1672063512000  
  }, {  
    "id": "9dd3a6d966894e4399d3aafe3ceb4fad",  
    "name": "API automatic creation rule hC3Ud",  
    "level": "tenant",  
    "is_valid": true,  
  } ]  
}
```

```
"version" : "d4b0df240e06466e91629c65436abe93",  
"operator" : "north5",  
"is_public" : false,  
"is_legacy" : null,  
"operate_time" : 1719220158000  
}],  
"total" : 199  
}
```

Status Codes

Status Code	Description
200	Response body for querying policy association information.

Error Codes

See [Error Codes](#).

4.6 Project-Level Policy Management

4.6.1 Obtaining the Project-Level Policy List

Function

This API is used to obtain the project-level policy list.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v2/{project_id}/rule-sets/query

Table 4-580 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Table 4-581 Query Parameters

Parameter	Mandatory	Type	Description
offset	Yes	Integer	Definition: Offset where the query starts. Constraints: N/A Value range: The value is no less than 0. Default value: N/A
limit	Yes	Integer	Definition: Number of records of each query. Constraints: N/A Value range: The value is no less than 0. Default value: N/A

Parameter	Mandatory	Type	Description
include_tenant_rule_set	Yes	Boolean	Definition: Whether tenant-level rules are included. Constraints: N/A Value range: • true: Tenant-level rules are included. • false: Tenant-level rules are not included. Default value: N/A
name	No	String	Definition: Policy name, which can be used for fuzzy query. Constraints: The policy name can contain only characters, letters, digits, hyphens (-), and underscores (_). Value range: Enter a maximum of 128 characters. Default value: N/A
is_valid	No	Boolean	Definition: Whether the policy is valid. Constraints: N/A Value range: • true: The policy is valid. • false: The policy is invalid. Default value: N/A

Parameter	Mandatory	Type	Description
type	No	String	Definition: Policy type. Constraints: N/A Value range: N/A Default value: N/A

Request Parameters

Table 4-582 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-583 Response body parameters

Parameter	Type	Description
data	Array of RuleSet objects	Definition: List of rule instances. Value range: N/A

Parameter	Type	Description
total	Long	Definition: Total number of rules. Value range: N/A

Table 4-584 RuleSet

Parameter	Type	Description
id	String	Definition: Rule template instance ID. Value range: N/A
name	String	Definition: Rule template instance name. Value range: N/A
type	String	Definition: Rule instance type. Value range: N/A
version	String	Definition: Rule instance version. Value range: N/A
operator	String	Definition: Latest operator of the rule instance. Value range: N/A
operate_time	Long	Definition: Time when the rule was last operated. Value range: N/A

Parameter	Type	Description
is_valid	Boolean	Definition: Whether the rule instance takes effect. Value range: • true: The rule takes effect. • false: The rule does not take effect.
level	String	Definition: Effective level of a rule instance. Value range: N/A
is_public	Boolean	Definition: Whether the rule instance is system-level. Value range: • true: The rule instance is system-level. • false: The rule instance is not system-level.
is_legacy	Boolean	Definition: Whether the rule instance data is from version 1.0. Value range: • true: The rule instance data is from version 1.0. • false: The rule instance data is not from version 1.0.

Status code: 400**Table 4-585** Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A

Parameter	Type	Description
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

```
GET https://{endpoint}/v2/d80a8a6530324b7bac972cbb8a9f28ec/rule-sets/query?
name=&limit=10&offset=0&include_tenant_rule_set=false
```

Example Responses

Status code: 200

OK

```
{
  "data": [ {
    "id": "98183e0e70634f4d99da7dc549496652",
    "name": "Creating a Policy - 20230915203425",
    "level": "project",
    "is_valid": true,
    "version": "82ed35e3ecd041ebace8d62347042368",
    "operator": "xxx",
    "is_public": false,
    "operate_time": 1694781278000
  }, {
    "id": "becbd00aa13147c6a226283a4bad57e0",
    "name": "Creating a Policy - 20230817183223",
    "level": "project",
    "is_valid": true,
    "version": "e3cc0a3df511486ea36bdc46df724f8",
    "operator": "xxx",
    "is_public": false,
    "operate_time": 1693900336000
  }, {
    "id": "52b24f9add844832a2af11f2e760c730",
    "name": "codecheck-copy",
    "level": "project",
    "is_valid": true,
    "version": "a2e50e1972f348e0838679eabe0b4467",
    "operator": "xxx",
    "is_public": false,
    "operate_time": 1693900325000
  }, {
    "id": "d899845c2eff4fa18860fa4b31c5ee31",
    "name": "codecheck",
    "level": "project",
    "is_valid": true,
    "version": "20f79c6ff8844f5391882d7b3497761b",
    "operator": "xxx",
    "is_public": false,
    "operate_time": 1693300726000
  } ],
  "total": 4
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class ListProjectStrategySolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        ListProjectStrategyRequest request = new ListProjectStrategyRequest();
        request.withProjectId("{project_id}");
        try {
            ListProjectStrategyResponse response = client.listProjectStrategy(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
```

```
sk = os.environ["CLOUD_SDK_SK"]

credentials = BasicCredentials(ak, sk)

client = CodeArtsPipelineClient.new_builder() \
    .with_credentials(credentials) \
    .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
    .build()

try:
    request = ListProjectStrategyRequest()
    request.project_id = "{project_id}"
    response = client.list_project_strategy(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListProjectStrategyRequest{
        request.ProjectId = "{project_id}"
    }
    response, err := client.ListProjectStrategy(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.6.2 Querying Project-Level Policy Details

Function

This API is used to query the project-level policy details.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v2/{project_id}/rule-sets/{rule_set_id}/gray/detail

Table 4-586 Path Parameters

Parameter	Mandatory	Type	Description
rule_set_id	Yes	String	Definition: Policy ID, which is the unique identifier of a policy. Obtain the policy ID by calling the API for querying policies . data.id indicates the policy ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-587 Response body parameters

Parameter	Type	Description
id	String	Definition: Rule template instance ID. Value range: The value consists of 32 characters, including digits and letters.
name	String	Definition: Rule template instance name. Value range: N/A
type	String	Definition: Rule template type. Value range: N/A
version	String	Definition: Rule template policy. Value range: N/A
creator	String	Definition: Policy creator. Value range: N/A
create_time	String	Definition: Policy creation time. Value range: N/A
updater	String	Definition: User who last updated the policy. Value range: N/A
update_time	String	Definition: Time when the policy was last updated. Value range: N/A

Parameter	Type	Description
is_valid	Boolean	Definition: Whether the policy takes effect. Value range: • true: The policy takes effect. • false: The policy does not take effect.
rule_instances	Array of RuleInstance objects	Definition: Rule instance set. Value range: N/A
level	String	Definition: Effective level of a rule instance. Value range: N/A
is_public	Boolean	Definition: Whether the rule instance is system-level. Value range: • true: The rule instance is system-level. • false: The rule instance is not system-level.
is_legacy	Boolean	Definition: Whether the rule instance data is from version 1.0. Value range: • true: The rule instance data is from version 1.0. • false: The rule instance data is not from version 1.0.

Table 4-588 RuleInstance

Parameter	Type	Description
id	String	Definition: Rule instance ID. Value range: The value consists of 32 characters, including digits and letters.
type	String	Definition: Rule type. Value range: N/A
name	String	Definition: Rule name. Value range: N/A
version	String	Definition: Rule version. Value range: N/A
plugin_id	String	Definition: Extension ID. Value range: N/A
plugin_name	String	Definition: Extension name. Value range: N/A
plugin_version	String	Definition: Extension version number. Value range: N/A
is_valid	Boolean	Definition: Whether the rule takes effect. Value range: • true: The rule takes effect. • false: The rule does not take effect.

Parameter	Type	Description
editable	Boolean	Definition: Whether the rule can be edited. Value range: • true: The rule can be edited. • false: The rule cannot be edited.
content	Array of RuleInstanceContent objects	Definition: Rule instance set. Value range: N/A
parent	RuleSet object	Definition: Parent instance attribute. Value range: N/A.

Table 4-589 RuleInstanceContent

Parameter	Type	Description
group_name	String	Definition: Group name. Value range: N/A
editable	Boolean	Definition: Editable or not. Value range: N/A
type	String	Definition: Group type. Value range: N/A
can_modify_when_inherit	Boolean	Definition: Whether the threshold of the inherited sub-policy can be modified. Value range: • true: The threshold can be modified. • false: The threshold cannot be modified.

Parameter	Type	Description
properties	Array of RuleInstanceProperty objects	Definition: Rule attributes. Constraints: N/A Value range: N/A Default value: N/A

Table 4-590 RuleInstanceProperty

Parameter	Type	Description
key	String	Definition: Rule attribute key. Value range: N/A
type	String	Definition: Rule type. Value range: N/A
name	String	Definition: Displayed name. Value range: N/A
operator	String	Definition: Comparison operator. Value range: N/A
value	String	Definition: Attribute value. Value range: N/A
value_type	String	Definition: Data type. Value range: N/A

Table 4-591 RuleSet

Parameter	Type	Description
id	String	Definition: Rule template instance ID. Value range: N/A
name	String	Definition: Rule template instance name. Value range: N/A
type	String	Definition: Rule instance type. Value range: N/A
version	String	Definition: Rule instance version. Value range: N/A
operator	String	Definition: Latest operator of the rule instance. Value range: N/A
operate_time	Long	Definition: Time when the rule was last operated. Value range: N/A
is_valid	Boolean	Definition: Whether the rule instance takes effect. Value range: • true: The rule takes effect. • false: The rule does not take effect.
level	String	Definition: Effective level of a rule instance. Value range: N/A

Parameter	Type	Description
is_public	Boolean	Definition: Whether the rule instance is system-level. Value range: • true: The rule instance is system-level. • false: The rule instance is not system-level.
is_legacy	Boolean	Definition: Whether the rule instance data is from version 1.0. Value range: • true: The rule instance data is from version 1.0. • false: The rule instance data is not from version 1.0.

Status code: 400**Table 4-592** Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Status code: 401

Table 4-593 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A Value range: N/A Default value: N/A
error_msg	String	Definition: Error message. Constraints: N/A Value range: N/A Default value: N/A

Status code: 403**Table 4-594** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Type	Description
error_msg	String	Definition: Error message. Constraints: N/A Value range: N/A Default value: N/A

Status code: 404**Table 4-595** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A Value range: N/A Default value: N/A
error_msg	String	Definition: Error message. Constraints: N/A Value range: N/A Default value: N/A

Example Requests

```
GET https://{endpoint}/v2/d80a8a6530324b7bac972cbb8a9f28ec/rule-sets/  
f9228e23118c4fa5a9c86493ea0cffc2/gray/detail
```

Example Responses**Status code: 200**

OK

```
{
  "id" : "f9228e23118c4fa5a9c86493ea0cffc2",
  "name" : "System-defined policies",
  "version" : "ace33a17a73442e398fedc123d047da2",
  "is_valid" : true,
  "creator" : "system",
  "create_time" : "2022-11-14T16:12:12",
  "updater" : "system",
  "update_time" : "2023-03-13T20:40:56",
  "rule_instances" : [ {
    "id" : "ee207826d1773f9122857474af314e48",
    "type" : "Gate",
    "name" : "API test pass rate access control",
    "is_valid" : false,
    "version" : "90cd646fa8cd7f91d38e592dbb76a62e",
    "plugin_id" : "official_devcloud_apiTest",
    "plugin_name" : "official_devcloud_apiTest",
    "plugin_version" : "0.0.1",
    "content" : [ {
      "group_name" : "API test pass rate access control",
      "can_modify_when_inherit" : true,
      "properties" : [ {
        "key" : "apitest",
        "type" : "judge",
        "name" : "API test pass rate",
        "value_type" : "float",
        "value" : "1.0",
        "operator" : ">="
      } ]
    } ]
  } ]
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class ShowProjectStrategySolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
```

```
        .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
        .build();
ShowProjectStrategyRequest request = new ShowProjectStrategyRequest();
request.withRuleSetId("{rule_set_id}");
request.withProjectId("{project_id}");
try {
    ShowProjectStrategyResponse response = client.showProjectStrategy(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.valueOf("<YOUR REGION>")) \
        .build()

    try:
        request = ShowProjectStrategyRequest()
        request.rule_set_id = "{rule_set_id}"
        request.project_id = "{project_id}"
        response = client.show_project_strategy(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
```

```
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowProjectStrategyRequest{}
    request.RuleSetId = "{rule_set_id}"
    request.ProjectId = "{project_id}"
    response, err := client.ShowProjectStrategy(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.6.3 Querying Project-Level Open-Source Governance Policy Details

Function

This API is used to query project-level open source governance policy details.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v2/{project_id}/open-source/rule-sets/{rule_set_id}/detail

Table 4-596 Path Parameters

Parameter	Mandatory	Type	Description
rule_set_id	Yes	String	Definition: Policy ID, which is the unique identifier of a policy. Obtain the policy ID by calling the API for querying policies . data.id indicates the policy ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-597 Response body parameters

Parameter	Type	Description
id	String	Definition: ID of an open-source governance policy. Value range: The value consists of 32 characters, including digits and letters.
name	String	Definition: Name of an open-source governance policy. Value range: Enter a maximum of 128 characters.
level	String	Definition: Open-source governance policy level. Value range: N/A
parent_id	String	Definition: ID of an open-source governance parent policy. Value range: N/A
version	String	Definition: Open-source governance policy version. Value range: N/A
is_valid	Boolean	Definition: Whether the open-source governance policy is enabled. Value range: • true: enabled. • false: disabled.

Parameter	Type	Description
is_public	Boolean	Definition: Whether the policy is a system-level policy. Value range: • true: The policy is a system-level policy. • false: The policy is not a system-level policy.
creator	String	Definition: Creator of an open-source governance policy. Value range: N/A
create_time	String	Definition: Time when an open-source governance policy was created. Value range: N/A
updater	String	Definition: User who updated the open-source governance policy. Value range: N/A
update_time	String	Definition: Time when the open-source governance policy was updated. Value range: N/A
content	OpenSourceRuleContent object	Definition: Details about an open-source governance policy rule. Value range: N/A

Table 4-598 OpenSourceRuleContent

Parameter	Type	Description
version_set	VersionSetProperty object	Definition: Open-source dependency. Constraints: N/A Value range: N/A Default value: N/A
security	SecurityProperty object	Definition: Vulnerability. Constraints: N/A Value range: N/A Default value: N/A
license	LicenseProperty object	Definition: License. Constraints: N/A Value range: N/A Default value: N/A

Table 4-599 VersionSetProperty

Parameter	Type	Description
enable	Boolean	Definition: Whether to enable the rule. Constraints: N/A Value range: • true: enabled. • false: disabled. Default value: N/A
rules	Array of VersionSetRule objects	Definition: Rule list. Constraints: N/A Value range: N/A Default value: N/A

Table 4-600 VersionSetRule

Parameter	Type	Description
enable	Boolean	Definition: Whether to enable. Constraints: N/A Value range: • true: enabled. • false: disabled. Default value: N/A

Parameter	Type	Description
ecosystem	String	Definition: Dependency type. Constraints: N/A Value range: N/A Default value: N/A
package_name	String	Definition: Package name. Constraints: N/A Value range: N/A Default value: N/A
package_version	String	Definition: Package version. Constraints: N/A Value range: N/A Default value: N/A
description	String	Definition: Rule description. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Type	Description
predicate	String	Definition: Comparison rule. Constraints: N/A Value range: N/A Default value: N/A

Table 4-601 SecurityProperty

Parameter	Type	Description
enable	Boolean	Definition: Whether to enable the rule. Constraints: N/A Value range: • true: enabled. • false: disabled. Default value: N/A
rules	SecurityRule object	Definition: Rule details. Constraints: N/A Value range: N/A Default value: N/A

Table 4-602 SecurityRule

Parameter	Type	Description
severity	severity object	Definition: Vulnerability severity. Constraints: N/A Value range: N/A Default value: N/A
cve	cve object	Definition: Vulnerability ID. Constraints: N/A Value range: N/A Default value: N/A

Table 4-603 severity

Parameter	Type	Description
enable	Boolean	Definition: Whether to enable the rule. Constraints: N/A Value range: • true: enabled. • false: disabled. Default value: N/A

Parameter	Type	Description
values	Array of strings	Definition: Vulnerability severity. Constraints: N/A Value range: N/A Default value: N/A

Table 4-604 cve

Parameter	Type	Description
enable	Boolean	Definition: Whether to enable the rule. Constraints: N/A Value range: • true: enabled. • false: disabled. Default value: N/A
values	Array of strings	Definition: Vulnerability ID. Constraints: N/A Value range: N/A Default value: N/A

Table 4-605 LicenseProperty

Parameter	Type	Description
enable	Boolean	Definition: Whether to enable. Constraints: N/A Value range: • true: enabled. • false: disabled. Default value: N/A
rules	Array of rules objects	Definition: Rule list. Constraints: N/A Value range: N/A Default value: N/A

Table 4-606 rules

Parameter	Type	Description
values	Array of strings	Definition: License details. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Type	Description
predicate	String	Definition: Comparison rule. Constraints: N/A Value range: N/A Default value: N/A

Status code: 400**Table 4-607** Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Status code: 401**Table 4-608** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Type	Description
error_msg	String	Definition: Error message. Constraints: N/A Value range: N/A Default value: N/A

Status code: 403**Table 4-609** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A Value range: N/A Default value: N/A
error_msg	String	Definition: Error message. Constraints: N/A Value range: N/A Default value: N/A

Status code: 404

Table 4-610 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A Value range: N/A Default value: N/A
error_msg	String	Definition: Error message. Constraints: N/A Value range: N/A Default value: N/A

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.6.4 Obtaining Project-Level Open-Source Governance Policies

Function

This API is used to obtain the project-level open-source governance policies.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v2/{project_id}/open-source/rule-sets/query

Table 4-611 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-612 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Table 4-613 Request body parameters

Parameter	Mandatory	Type	Description
name	No	String	Definition: Name of an open-source governance policy. Constraints: The policy name can contain only characters, letters, digits, hyphens (-), and underscores (_). Value range: Enter a maximum of 128 characters. Default value: N/A

Parameter	Mandatory	Type	Description
creatorName	No	String	Definition: Name of the creator of an open-source governance policy. The name can be used for fuzzy query. Constraints: N/A Value range: N/A Default value: N/A
limit	No	Integer	Definition: Number of records of each query. Constraints: N/A Value range: The value is no less than 0. Default value: N/A
offset	No	Integer	Definition: Offset where the query starts. Constraints: N/A Value range: The offset value must be no less than 0. Default value: N/A

Response Parameters

Status code: 200

Table 4-614 Response body parameters

Parameter	Type	Description
data	Array of SimpleRuleSetVO objects	Definition: Policy details. Value range: N/A
total	Long	Definition: Total number of items. Value range: The value is no less than 0.

Table 4-615 SimpleRuleSetVO

Parameter	Type	Description
id	String	Definition: Policy ID. Value range: N/A
name	String	Definition: Policy name. Value range: Enter a maximum of 128 characters.
level	String	Definition: Scope identifier. Value range: tenant: tenant. • others: non-tenant.
is_valid	Boolean	Definition: Whether this function takes effect. Value range: • true: The function takes effect. • false: The function does not take effect.
version	String	Definition: Rule template version. Value range: N/A

Parameter	Type	Description
operator	String	Definition: Latest operator. Value range: N/A
is_public	Boolean	Definition: Whether the policy is a system policy. Value range: • true: The policy is a system policy. • false: The policy is not a system policy.
is_legacy	Boolean	Definition: Whether the data is from version 1.0. Value range: • true: The data is from version 1.0. • false: The data is not from version 1.0.
operate_time	Integer	Definition: Last operation time. Value range: N/A

Status code: 400**Table 4-616** Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.6.5 Querying Policy Usage

Function

This API is used to query policy usage.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v2/{cloudProjectId}/rule-sets/{ruleSetId}/related/query

Table 4-617 Path Parameters

Parameter	Mandatory	Type	Description
cloudProjectId	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
ruleSetId	Yes	String	Definition: Policy ID, which is the unique identifier of a policy. Obtain the policy ID by calling the API for querying policies . data.id indicates the policy ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-618 Response body parameters

Parameter	Type	Description
project_count	Long	Definition: Number of projects. Value range: N/A
pipeline_count	Long	Definition: Number of pipelines. Value range: N/A

Example Requests

```
GET https://{endpoint}/v2/83575118c90d4875be6ff167cd25424a/rule-sets/  
63963e542f0945a3b6243c01aa2fc0c0/related/query
```

Example Responses

Status code: 200

Response body for querying policy usage.

```
{  
  "project_count" : 0,  
  "pipeline_count" : 0  
}
```

Status Codes

Status Code	Description
200	Response body for querying policy usage.

Error Codes

See [Error Codes](#).

4.6.6 Inheriting a Policy

Function

This API is used to inherit a policy.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v2/{cloudProjectId}/rule-sets/inherit

Table 4-619 Path Parameters

Parameter	Mandatory	Type	Description
cloudProjectId	Yes	String	Project ID.

Request Parameters

Table 4-620 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Policy name.
parent_id	Yes	String	Parent policy ID.
cloud_project_id	Yes	String	Project ID.
rules	No	Array of strings	Rule.
is_valid	Yes	Boolean	Enable or not.

Response Parameters

Status code: 200

Table 4-621 Response body parameters

Parameter	Type	Description
status	Boolean	Definition: Whether the update is successful. Value range: • true: The update is successful. • false: The update fails.
rule_set_id	String	Definition: Policy ID. Value range: The value consists of 32 characters, including digits and letters.

Example Requests

```
POST https://{endpoint}/v2/2d09f712e9504b61b034cc8f40e475a8/rule-sets/inherit
{
  "name" : "New policy -20240625194116-copy-98528",
  "parent_id" : "62e21804566e4e18bc8106f6c961aefd",
  "cloud_project_id" : "2d09f712e9504b61b034cc8f40e475a8",
  "rules" : [ ],
  "is_valid" : true
}
```

Example Responses

Status code: 200

Response body for inheriting a policy.

```
{
  "status" : true,
  "rule_set_id" : "2f4a244eff3442f0befd6df80a1eabec"
}
```

Status Codes

Status Code	Description
200	Response body for inheriting a policy.

Error Codes

See [Error Codes](#).

4.6.7 Switching the Status of a Policy

Function

This API is used to switch the status of a policy.

Calling Method

For details, see [Calling APIs](#).

URI

PUT /v2/{cloudProjectId}/rule-sets/{ruleSetId}/switch

Table 4-622 Path Parameters

Parameter	Mandatory	Type	Description
cloudProjectId	Yes	String	Project ID.
ruleSetId	Yes	String	Policy ID.

Request Parameters

Table 4-623 Request body parameters

Parameter	Mandatory	Type	Description
is_valid	Yes	Boolean	Whether it is valid, true : valid; false : not valid.

Response Parameters

Status code: 200

Table 4-624 Response body parameters

Parameter	Type	Description
status	Boolean	Definition: Whether the update is successful. Value range: true: The update is successful. false: The update fails.
rule_set_id	String	Definition: Policy ID. Value range: The value consists of 32 characters, including digits and letters.

Example Requests

```
PUT https://{endpoint}/v2/2d09f712e9504b61b034cc8f40e475a8/rule-sets/  
2f4a244eff3442f0befd6df80a1eabec/switch  
  
{  
  "is_valid" : true  
}
```

Example Responses

Status code: 200

Response body for changing the policy status.

```
{  
  "status" : true,  
  "rule_set_id" : "2f4a244eff3442f0befd6df80a1eabec"  
}
```

Status Codes

Status Code	Description
200	Response body for changing the policy status.

Error Codes

See [Error Codes](#).

4.6.8 Deleting a Policy

Function

This API is used to delete a policy.

Calling Method

For details, see [Calling APIs](#).

URI

DELETE /v2/{cloudProjectId}/rule-sets/{ruleSetId}/delete

Table 4-625 Path Parameters

Parameter	Mandatory	Type	Description
cloudProjectId	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Parameter	Mandatory	Type	Description
ruleSetId	Yes	String	Definition: Policy ID, which is the unique identifier of a policy. Obtain the policy ID by calling the API for querying policies . data.id indicates the policy ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-626 Response body parameters

Parameter	Type	Description
status	Boolean	Definition: Successful or not. Value range: true: successful. false: failed.

Example Requests

```
DELETE https://{endpoint}/v2/2d09f712e9504b61b034cc8f40e475a8/rule-sets/2f4a244eff3442f0befd6df80a1eabec/delete
```

Example Responses

None

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.6.9 Querying the Details of a Policy

Function

This API is used to query the details of a policy.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v2/{cloudProjectId}/rule-sets/{ruleSetId}/detail

Table 4-627 Path Parameters

Parameter	Mandatory	Type	Description
cloudProjectId	Yes	String	Project ID.
ruleSetId	Yes	String	Policy ID.

Request Parameters

None

Response Parameters

Status code: 200

Table 4-628 Response body parameters

Parameter	Type	Description
data	Array of SimpleRuleSetVO objects	Definition: Policy details. Value range: N/A
total	Long	Definition: Total number of items. Value range: The value is no less than 0.

Table 4-629 SimpleRuleSetVO

Parameter	Type	Description
id	String	Definition: Policy ID. Value range: N/A
name	String	Definition: Policy name. Value range: Enter a maximum of 128 characters.
level	String	Definition: Scope identifier. Value range: tenant: tenant. • others: non-tenant.
is_valid	Boolean	Definition: Whether this function takes effect. Value range: • true: The function takes effect. • false: The function does not take effect.
version	String	Definition: Rule template version. Value range: N/A

Parameter	Type	Description
operator	String	Definition: Latest operator. Value range: N/A
is_public	Boolean	Definition: Whether the policy is a system policy. Value range: • true: The policy is a system policy. • false: The policy is not a system policy.
is_legacy	Boolean	Definition: Whether the data is from version 1.0. Value range: • true: The data is from version 1.0. • false: The data is not from version 1.0.
operate_time	Integer	Definition: Last operation time. Value range: N/A

Example Requests

```
GET https://{endpoint}/v2/2d09f712e9504b61b034cc8f40e475a8/rule-sets/842cacd3424a470eb410300b537fa756/detail
```

Example Responses

Status code: 200

Response body for querying policy details.

```
{
  "data": [ {
    "id": "842cacd3424a470eb410300b537fa756",
    "name": "NewPolicy-20240625194201",
    "level": "project",
    "version": "efaddbfff5c742f781802004b888eccb",
    "is_valid": true,
    "is_public": false
  } ],
  "total": 1
}
```

Status Codes

Status Code	Description
200	Response body for querying policy details.

Error Codes

See [Error Codes](#).

4.6.10 Updating a Policy

Function

This API is used to update a policy.

Calling Method

For details, see [Calling APIs](#).

URI

PUT /v2/{cloudProjectId}/rule-sets/{ruleSetId}/update

Table 4-630 Path Parameters

Parameter	Mandatory	Type	Description
cloudProjectId	Yes	String	Project ID.
ruleSetId	Yes	String	Policy ID.

Request Parameters

Table 4-631 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Policy name.
rules	Yes	Array of rules objects	Rule.

Table 4-632 rules

Parameter	Mandatory	Type	Description
id	Yes	String	Rule ID.
is_valid	Yes	Boolean	Enable or not.

Response Parameters

Status code: 200

Table 4-633 Response body parameters

Parameter	Type	Description
status	Boolean	Definition: Whether the update is successful. Value range: true: The update is successful. false: The update fails.
rule_set_id	String	Definition: Policy ID. Value range: The value consists of 32 characters, including digits and letters.

Example Requests

```
PUT https://{endpoint}/v2/2d09f712e9504b61b034cc8f40e475a8/rule-sets/842cacd3424a470eb410300b537fa756/update
{
  "name" : "New policy-20240625194201",
  "rules" : [ {
    "id" : "df6f4de49cf14d738ce34ec63e5039ff",
    "is_valid" : true
  } ]
}
```

Example Responses

Status code: 200

Response body for updating a policy.

```
{
  "status" : true,
  "rule_set_id" : "842cacd3424a470eb410300b537fa756"
}
```

Status Codes

Status Code	Description
200	Response body for updating a policy.

Error Codes

See [Error Codes](#).

4.6.11 Creating a Policy

Function

This API is used to create a policy.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v2/{cloudProjectId}/rule-sets/create

Table 4-634 Path Parameters

Parameter	Mandatory	Type	Description
cloudProjectId	Yes	String	Definition: Project ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-635 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Definition: Policy name. Constraints: The policy name can contain only letters, digits, hyphens (-), and underscores (_). Value range: Enter a maximum of 128 characters. Default value: N/A
cloud_project_id	Yes	String	Definition: Project ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
rules	Yes	Array of rules objects	Definition: Rule details. Constraints: N/A Value range: No more than 20 rules. Default value: N/A

Table 4-636 rules

Parameter	Mandatory	Type	Description
id	Yes	String	Definition: Rule ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
is_valid	Yes	Boolean	Definition: Whether to enable the rule. Constraints: N/A Value range: • true: enabled. • false: disabled. Default value: N/A

Response Parameters

Status code: 200

Table 4-637 Response body parameters

Parameter	Type	Description
status	Boolean	Definition: Whether the update is successful. Value range: • true: The update is successful. • false: The update fails.
rule_set_id	String	Definition: Policy ID. Value range: The value consists of 32 characters, including digits and letters.

Example Requests

```
POST https://{endpoint}/v2/2d09f712e9504b61b034cc8f40e475a8/rule-sets/create
{
  "name" : "New policy-20240625200400",
  "cloud_project_id" : "2d09f712e9504b61b034cc8f40e475a8",
  "rules" : [ {
    "id" : "597c7f2f775740a1bb522b03a16e6864",
    "is_valid" : true
  } ]
}
```

Example Responses

Status code: 200

Response body for creating a policy.

```
{
  "status" : true,
  "rule_set_id" : "e42be82e7d514437a322dce4d42bdec8"
}
```

Status Codes

Status Code	Description
200	Response body for creating a policy.

Error Codes

See [Error Codes](#).

4.7 Extension Management

4.7.1 Creating an Extension Version

Function

This API is used to create an extension version.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v1/{domain_id}/agent-plugin/create

Table 4-638 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-639 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Table 4-640 Request body parameters

Parameter	Mandatory	Type	Description
unique_id	No	String	Definition: Extension ID. Obtain the ID by calling the API for querying the extension details . unique_id indicates extension ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
icon_url	No	String	Definition: URL of the extension icon. Constraints: N/A Value range: N/A Default value: N/A
runtime_attri bution	Yes	String	Definition: Running attribute. Constraints: N/A Value range: ● agent: agent-based running. ● agentless: agentless running. Default value: N/A

Parameter	Mandatory	Type	Description
plugin_name	Yes	String	Definition: Extension name. Constraints: Enter only letters, digits, hyphens (-), and underscores (_). Value range: 1 to 50 characters. Default value: N/A
display_name	Yes	String	Definition: Display name. Constraints: Enter only letters, spaces, digits, hyphens (-), underscores (_), and periods (.). Value range: 1 to 50 characters. Default value: N/A
business_type	Yes	String	Definition: Service type. Constraints: Enter only letters, digits, hyphens (-), and underscores (_). Value range: 1 to 50 characters. Default value: N/A

Parameter	Mandatory	Type	Description
business_type_display_name	Yes	String	Definition: Service type of the extension. Constraints: N/A Value range: • Build. • Check. • Deploy. • Test. • Normal. Default value: N/A
description	Yes	String	Definition: Extension description. Constraints: N/A Value range: N/A Default value: N/A
is_private	No	Integer	Definition: Whether the extension is private. Constraints: N/A Value range: • 1: private. • 0: public. Default value: 0.
region	No	String	Definition: Region. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
maintainers	No	String	Definition: Extension maintainer. Constraints: N/A Value range: N/A Default value: N/A
plugin_composition_type	No	String	Definition: Combination type of an extension. Constraints: N/A Value range: N/A Default value: N/A
manifest_version	No	String	Definition: It is used to distinguish data of the new and old versions. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
version	Yes	String	Definition: Extension version number. Constraints: The value must be in the format of <i>x.xx.xx</i> (for example, 1.0.2), where <i>x</i> is a number ranging from 0 to 99 . <i>xx</i> indicates the number following the dot (.). Each <i>xx</i> can be a one-digit or two-digit number. Value range: N/A Default value: N/A
version_description	No	String	Definition: Description of the minor version of the extension. Constraints: N/A Value range: N/A Default value: N/A
execution_info	Yes	execution_info object	Definition: Execution information. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
output_info	No	Array of output_info objects	Definition: Extension output content. Constraints: N/A Value range: N/A Default value: N/A
input_info	No	Array of input_info objects	Definition: Input Information. Constraints: N/A Value range: N/A Default value: N/A

Table 4-641 execution_info

Parameter	Mandatory	Type	Description
inner_execution_info	Yes	inner_execution_info object	Definition: Extension execution information. Constraints: N/A Value range: N/A Default value: N/A

Table 4-642 inner_execution_info

Parameter	Mandatory	Type	Description
execution_type	No	String	Definition: Extension type. Constraints: N/A Value range: CONTAINER, ZIP, SHELL, or COMPOSITE. Default value: N/A
steps	No	Array of steps objects	Definition: Step list. Constraints: N/A. Value range: N/A. Default value: N/A.

Table 4-643 steps

Parameter	Mandatory	Type	Description
name	No	String	Definition: Task name. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
task	No	String	Definition: Task type. Constraints: N/A Value range: N/A Default value: N/A
variables	No	Map<String,Object>	Definition: Parameter information. Constraints: N/A Value range: N/A Default value: N/A

Table 4-644 output_info

Parameter	Mandatory	Type	Description
name	No	String	Definition: Unique identifier of the extension output configuration. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
version	No	String	Definition: Extension output version number. Constraints: N/A Value range: N/A Default value: N/A
description	No	String	Definition: Description of extension output configuration. Constraints: N/A Value range: N/A Default value: N/A
source	No	String	Definition: Source of extension output configuration. Constraints: N/A Value range: N/A Default value: N/A
type	No	String	Definition: Output type of extension output configuration. Constraints: N/A Value range: N/A Default value: N/A

Table 4-645 input_info

Parameter	Mandatory	Type	Description
name	No	String	Definition: Unique identifier of the extension input configuration. Constraints: N/A Value range: N/A Default value: N/A
default_value	No	String	Definition: Default value of the extension input configuration. If this parameter is not set, the default value is displayed. Constraints: N/A Value range: N/A Default value: N/A
type	No	String	Definition: Input type of the extension input configuration. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
validation	No	String	Definition: Regular expression verification rule of the input content in the extension input configuration. Constraints: N/A Value range: N/A Default value: N/A
layout_content	No	String	Definition: Style information. Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-646 Response body parameters

Parameter	Type	Description
-	String	Definition: Whether the creation is successful. Value range: - true: The creation is successful. - false: The creation fails.

Status code: 400

Table 4-647 Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

```
POST https://{endpoint}/v1/ce8df55870164338a72d7e828a966a2a/agent-plugin/create

{
  "plugin_name": "apie_test",
  "display_name": "apie_test",
  "version": "0.0.2",
  "version_description": "",
  "description": "",
  "unique_id": "ab43c83c2ae04000afd039ad894e953b",
  "business_type": "Normal",
  "business_type_display_name": "General",
  "icon_url": "",
  "runtime_attribution": "agent",
  "input_info": [ ],
  "execution_info": {
    "inner_execution_info": {
      "execution_type": "COMPOSITE",
      "steps": [ {
        "task": "official_shell_plugin",
        "name": "Executing the Shell",
        "identifier": "16993543666638cda5035-4854-4bc8-a88a-e1465b1bcc7a",
        "variables": {
          "OFFICIAL_SHELL_SCRIPT_INPUT": "env"
        }
      }
    ]
  }
}
```

Example Responses

Status code: 200

OK

true

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

import java.util.List;
import java.util.ArrayList;

public class CreatePluginVersionSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        CreatePluginVersionRequest request = new CreatePluginVersionRequest();
        request.withDomainId("{domain_id}");
        PluginDTO body = new PluginDTO();
        PluginDTOExecutionInfo executionInfobody = new PluginDTOExecutionInfo();
        executionInfobody.withInnerExecutionInfo("{\"execution_type\":\"COMPOSITE\",\"steps\": [{\"identifier\":"
            + "\"1699354366638cda5035-4854-4bc8-a88a-e1465b1bcc7a\",\"variables\": {"
            + "{\"OFFICIAL_SHELL_SCRIPT_INPUT\":{\"env\": \"task\",\"official_shell_plugin\",\"name\":\"Executing the Shell\":"
            + "\"}}}]");
        body.withExecutionInfo(executionInfobody);
        body.withVersionDescription("");
        body.withVersion("0.0.2");
        body.withDescription("");
        body.withBusinessTypeDisplayName("General");
        body.withBusinessType("Normal");
        body.withDisplayName("apie_test");
        body.withPluginName("apie_test");
        body.withRuntimeAttribution("agent");
        body.withIconUrl("");
        body.withUniqueId("ab43c83c2ae0400afd039ad894e953b");
        request.withBody(body);
        try {
            CreatePluginVersionResponse response = client.createPluginVersion(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrMsg());
        }
    }
}
```

```
}  
}
```

Python

```
# coding: utf-8  
  
import os  
from huaweicloudsdkcore.auth.credentials import BasicCredentials  
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion  
from huaweicloudsdkcore.exceptions import exceptions  
from huaweicloudsdkcodeartspipeline.v2 import *  
  
if __name__ == "__main__":  
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    # variables and decrypted during use to ensure security.  
    # In this example, AK and SK are stored in environment variables for authentication. Before running this  
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak = os.environ["CLOUD_SDK_AK"]  
    sk = os.environ["CLOUD_SDK_SK"]  
  
    credentials = BasicCredentials(ak, sk)  
  
    client = CodeArtsPipelineClient.new_builder() \  
        .with_credentials(credentials) \  
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \  
        .build()  
  
    try:  
        request = CreatePluginVersionRequest()  
        request.domain_id = "{domain_id}"  
        executionInfobody = PluginDTOExecutionInfo(  
            inner_execution_info="{\"execution_type\": \"COMPOSITE\", \"steps\": [{\"identifier  
\\\": \"16993543666638cda5035-4854-4bc8-a88a-e1465b1bcc7a\", \"variables\":  
{\"OFFICIAL_SHELL_SCRIPT_INPUT\": {\"env\": }, \"task\": {\"official_shell_plugin\", \"name\": \"Executing the Shell  
\\\"}}}  
\"})  
        request.body = PluginDTO(  
            execution_info=executionInfobody,  
            version_description="",  
            version="0.0.2",  
            description="",  
            business_type_display_name="General",  
            business_type="Normal",  
            display_name="apie_test",  
            plugin_name="apie_test",  
            runtime_attribution="agent",  
            icon_url="",  
            unique_id="ab43c83c2ae04000afd039ad894e953b"  
        )  
        response = client.create_plugin_version(request)  
        print(response)  
    except exceptions.ClientRequestException as e:  
        print(e.status_code)  
        print(e.request_id)  
        print(e.error_code)  
        print(e.error_msg)
```

Go

```
package main  
  
import (  
    "fmt"  
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"  
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"  
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"  
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
```

```
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.CreatePluginVersionRequest{
        request.DomainId = "{domain_id}"
        var innerExecutionInfoExecutionInfo interface{} = "{\"execution_type\":\"COMPOSITE\",\"steps\":
        [{\"identifier\":\"16993543666638cda5035-4854-4bc8-a88a-e1465b1bcc7a\",\"variables\":
        {\"OFFICIAL_SHELL_SCRIPT_INPUT\":{\"env\":},\"task\":{\"official_shell_plugin\",\"name\":\"Executing the Shell
        \"/>
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.7.2 Creating an Extension Draft Version

Function

This API is used to create an extension draft version.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v1/{domain_id}/agent-plugin/create-draft

Table 4-648 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-649 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Table 4-650 Request body parameters

Parameter	Mandatory	Type	Description
unique_id	No	String	Definition: Extension ID. Obtain the ID by calling the API for querying the extension details . unique_id indicates extension ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Parameter	Mandatory	Type	Description
icon_url	No	String	Definition: URL of the extension icon. Constraints: N/A Value range: N/A Default value: N/A
runtime_attri bution	Yes	String	Definition: Running attribute. Constraints: N/A Value range: • agent: agent-based running. • agentless: agentless running. Default value: N/A
plugin_name	Yes	String	Definition: Extension name. Constraints: Enter only letters, digits, hyphens (-), and underscores (_). Value range: 1 to 50 characters. Default value: N/A

Parameter	Mandatory	Type	Description
display_name	Yes	String	Definition: Display name. Constraints: Enter only letters, spaces, digits, hyphens (-), underscores (_), and periods (.). Value range: 1 to 50 characters. Default value: N/A
business_type	Yes	String	Definition: Service type. Constraints: Enter only letters, digits, hyphens (-), and underscores (_). Value range: 1 to 50 characters. Default value: N/A
business_type_display_name	Yes	String	Definition: Service type of the extension. Constraints: N/A Value range: • Build. • Check. • Deploy. • Test. • Normal. Default value: N/A

Parameter	Mandatory	Type	Description
description	Yes	String	Definition: Extension description. Constraints: N/A Value range: N/A Default value: N/A
is_private	No	Integer	Definition: Whether the extension is private. Constraints: N/A Value range: • 1: private. • 0: public. Default value: 0.
region	No	String	Definition: Region. Constraints: N/A Value range: N/A Default value: N/A
maintainers	No	String	Definition: Extension maintainer. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
plugin_composition_type	No	String	Definition: Combination type of an extension. Constraints: N/A Value range: N/A Default value: N/A
manifest_version	No	String	Definition: It is used to distinguish data of the new and old versions. Constraints: N/A Value range: N/A Default value: N/A
version	Yes	String	Definition: Extension version number. Constraints: The value must be in the format of <i>x.xx.xx</i> (for example, 1.0.2), where <i>x</i> is a number ranging from 0 to 99 . <i>xx</i> indicates the number following the dot (.). Each <i>xx</i> can be a one-digit or two-digit number. Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
version_description	No	String	Definition: Description of the minor version of the extension. Constraints: N/A Value range: N/A Default value: N/A
execution_info	Yes	execution_info object	Definition: Execution information. Constraints: N/A Value range: N/A Default value: N/A
output_info	No	Array of output_info objects	Definition: Extension output content. Constraints: N/A Value range: N/A Default value: N/A
input_info	No	Array of input_info objects	Definition: Input Information. Constraints: N/A Value range: N/A Default value: N/A

Table 4-651 execution_info

Parameter	Mandatory	Type	Description
inner_execution_info	Yes	inner_execution_info object	Definition: Extension execution information. Constraints: N/A Value range: N/A Default value: N/A

Table 4-652 inner_execution_info

Parameter	Mandatory	Type	Description
execution_type	No	String	Definition: Extension type. Constraints: N/A Value range: CONTAINER, ZIP, SHELL, or COMPOSITE. Default value: N/A
steps	No	Array of steps objects	Definition: Step list. Constraints: N/A. Value range: N/A. Default value: N/A.

Table 4-653 steps

Parameter	Mandatory	Type	Description
name	No	String	Definition: Task name. Constraints: N/A Value range: N/A Default value: N/A
task	No	String	Definition: Task type. Constraints: N/A Value range: N/A Default value: N/A
variables	No	Map<String,Object>	Definition: Parameter information. Constraints: N/A Value range: N/A Default value: N/A

Table 4-654 output_info

Parameter	Mandatory	Type	Description
name	No	String	Definition: Unique identifier of the extension output configuration. Constraints: N/A Value range: N/A Default value: N/A
version	No	String	Definition: Extension output version number. Constraints: N/A Value range: N/A Default value: N/A
description	No	String	Definition: Description of extension output configuration. Constraints: N/A Value range: N/A Default value: N/A
source	No	String	Definition: Source of extension output configuration. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
type	No	String	Definition: Output type of extension output configuration. Constraints: N/A Value range: N/A Default value: N/A

Table 4-655 input_info

Parameter	Mandatory	Type	Description
name	No	String	Definition: Unique identifier of the extension input configuration. Constraints: N/A Value range: N/A Default value: N/A
default_value	No	String	Definition: Default value of the extension input configuration. If this parameter is not set, the default value is displayed. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
type	No	String	Definition: Input type of the extension input configuration. Constraints: N/A Value range: N/A Default value: N/A
validation	No	String	Definition: Regular expression verification rule of the input content in the extension input configuration. Constraints: N/A Value range: N/A Default value: N/A
layout_content	No	String	Definition: Style information. Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-656 Response body parameters

Parameter	Type	Description
-	String	Definition: Whether the calling is successful. Value range: • true: The calling is successful. • false: The calling fails.

Status code: 400**Table 4-657** Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

POST https://{endpoint}/v1/ce8df55870164338a72d7e828a966a2a/agent-plugin/create-draft

```
{
  "plugin_name": "apie_test",
  "display_name": "apie_test",
  "business_type": "Normal",
  "description": "",
  "maintainers": "",
  "business_type_display_name": "General",
  "icon_url": "",
  "version": "0.0.1",
  "version_description": "",
  "input_info": [],
  "execution_info": {
    "inner_execution_info": {
      "execution_type": "COMPOSITE",
      "steps": [ {
        "task": "official_shell_plugin",
        "name": "Executing the Shell",
        "identifier": "16993543005962cb6e5e8-458a-4382-adfe-9702345ecddb",
        "variables": {
          "OFFICIAL_SHELL_SCRIPT_INPUT": "env"
        }
      }
    ]
  }
}
```

```
"runtime_attribution" : "agent"
}
```

Example Responses

Status code: 200

OK

```
true
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

import java.util.List;
import java.util.ArrayList;

public class CreatePluginDraftSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();

        CreatePluginDraftRequest request = new CreatePluginDraftRequest();
        request.withDomainId("{domain_id}");
        PluginDTO body = new PluginDTO();
        PluginDTOExecutionInfo executionInfobody = new PluginDTOExecutionInfo();
        executionInfobody.withInnerExecutionInfo("{\"execution_type\":\"COMPOSITE\",\"steps\":{\"identifier\":"
            + "\"16993543005962cb6e5e8-458a-4382-adfe-9702345ecddb\",\"variables\":"
            + "{\"OFFICIAL_SHELL_SCRIPT_INPUT\":{\"env\"},{\"task\":{\"official_shell_plugin\",\"name\":\"Executing the Shell\":"
            + "\"}}}}");
        body.withExecutionInfo(executionInfobody);
        body.withVersionDescription("");
        body.withVersion("0.0.1");
        body.withMaintainers("");
        body.withDescription("");
        body.withBusinessTypeDisplayName("General");
        body.withBusinessType("Normal");
        body.withDisplayName("apie_test");
        body.withPluginName("apie_test");
```

```
body.withRuntimeAttribution("agent");
body.withIconUrl("");
request.withBody(body);
try {
    CreatePluginDraftResponse response = client.createPluginDraft(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = CreatePluginDraftRequest()
        request.domain_id = "{domain_id}"
        executionInfobody = PluginDTOExecutionInfo(
            inner_execution_info="{\"execution_type\": \"COMPOSITE\", \"steps\": [{\"identifier
            \": \"16993543005962cb6e5e8-458a-4382-adfe-9702345ecdadb\", \"variables\":
            {\"OFFICIAL_SHELL_SCRIPT_INPUT\": {\"env\": {\"task\": \"official_shell_plugin\", \"name\": \"Executing the Shell
            \"}}}}"
        )
        request.body = PluginDTO(
            execution_info=executionInfobody,
            version_description="",
            version="0.0.1",
            maintainers="",
            description="",
            business_type_display_name="General",
            business_type="Normal",
            display_name="apie_test",
            plugin_name="apie_test",
            runtime_attribution="agent",
            icon_url=""
        )
        response = client.create_plugin_draft(request)
```

```
print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.CreatePluginDraftRequest{}
    request.DomainId = "{domain_id}"
    var innerExecutionInfoExecutionInfo interface{} = "{ \"execution_type\": \"COMPOSITE\", \"steps\": "
    [{ \"identifier\": \"16993543005962cb6e5e8-458a-4382-adfe-9702345ecddb\", \"variables\": "
    { \"OFFICIAL_SHELL_SCRIPT_INPUT\": \"env\", \"task\": \"official_shell_plugin\", \"name\": \"Executing the Shell "
    \"} } ] }"
    executionInfobody := &model.PluginDtoExecutionInfo{
        InnerExecutionInfo: &innerExecutionInfoExecutionInfo,
    }
    versionDescriptionPluginDto := ""
    maintainersPluginDto := ""
    iconUrlPluginDto := ""
    request.Body = &model.PluginDto{
        ExecutionInfo: executionInfobody,
        VersionDescription: &versionDescriptionPluginDto,
        Version: "0.0.1",
        Maintainers: &maintainersPluginDto,
        Description: "",
        BusinessTypeDisplayName: "General",
        BusinessType: "Normal",
        DisplayName: "apie_test",
        PluginName: "apie_test",
        RuntimeAttribution: "agent",
        IconUrl: &iconUrlPluginDto,
    }
    response, err := client.CreatePluginDraft(request)
    if err == nil {
        fmt.Printf("%v\n", response)
    } else {
        fmt.Println(err)
    }
}
```



```
}  
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.7.3 Creating a Publisher

Function

This API is used to create a publisher.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v1/{domain_id}/publisher/create

Table 4-658 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-659 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Table 4-660 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Definition: Publisher name. Constraints: N/A Value range: N/A Default value: N/A
user_id	No	String	Definition: User ID. Constraints: N/A Value range: N/A Default value: N/A
description	No	String	Definition: Publisher description. Constraints: N/A Value range: N/A Default value: N/A
logo_url	No	String	Definition: Publisher icon URL. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
website	No	String	Definition: Publisher website URL. Constraints: N/A Value range: N/A Default value: N/A
support_url	Yes	String	Definition: Publisher help address. Constraints: N/A Value range: N/A Default value: N/A
source_url	No	String	Definition: Source code address of the publisher. Constraints: N/A Value range: N/A Default value: N/A
en_name	Yes	String	Definition: Publisher name (English). Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
publisher_unique_id	No	String	Definition: Publisher ID. Obtain the ID by calling the API for querying publisher details . Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-661 Response body parameters

Parameter	Type	Description
-	String	Definition: Whether the calling is successful. Value range: • true: The calling is successful. • false: The calling fails.

Status code: 400

Table 4-662 Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

```
POST https://{endpoint}/v1/ce8df55870164338a72d7e828a966a2a/publisher/create

{
  "name" : "aaa",
  "en_name" : "aaa",
  "website" : "",
  "support_url" : "aaa@aa.com",
  "source_url" : "",
  "description" : "",
  "logo_url" : ""
}
```

Example Responses

Status code: 200

OK

true

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class CreatePublisherSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        CreatePublisherRequest request = new CreatePublisherRequest();
        request.withDomainId("{domain_id}");
        PublisherRequest body = new PublisherRequest();
        body.withEnName("aaa");
        body.withSourceUrl("");
        body.withSupportUrl("aaa@aa.com");
        body.withWebsite("");
        body.withLogoUrl("");
    }
}
```

```
body.withDescription("");
body.withName("aaa");
request.withBody(body);
try {
    CreatePublisherResponse response = client.createPublisher(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = CreatePublisherRequest()
        request.domain_id = "{domain_id}"
        request.body = PublisherRequest(
            en_name="aaa",
            source_url="",
            support_url="aaa@aa.com",
            website="",
            logo_url="",
            description="",
            name="aaa"
        )
        response = client.create_publisher(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.CreatePublisherRequest{}
    request.DomainId = "{domain_id}"
    sourceUrlPublisherRequest := ""
    websitePublisherRequest := ""
    logoUrlPublisherRequest := ""
    descriptionPublisherRequest := ""
    request.Body = &model.PublisherRequest{
        EnName: "aaa",
        SourceUrl: &sourceUrlPublisherRequest,
        SupportUrl: "aaa@aa.com",
        Website: &websitePublisherRequest,
        LogoUrl: &logoUrlPublisherRequest,
        Description: &descriptionPublisherRequest,
        Name: "aaa",
    }
    response, err := client.CreatePublisher(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.7.4 Updating an Extension Draft

Function

This API is used to update an extension draft.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v1/{domain_id}/agent-plugin/edit-draft

Table 4-663 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-664 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Table 4-665 Request body parameters

Parameter	Mandatory	Type	Description
unique_id	No	String	Definition: Extension ID. Obtain the ID by calling the API for querying the extension details . unique_id indicates extension ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Parameter	Mandatory	Type	Description
icon_url	No	String	Definition: URL of the extension icon. Constraints: N/A Value range: N/A Default value: N/A
runtime_attri bution	Yes	String	Definition: Running attribute. Constraints: N/A Value range: • agent: agent-based running. • agentless: agentless running. Default value: N/A
plugin_name	Yes	String	Definition: Extension name. Constraints: Enter only letters, digits, hyphens (-), and underscores (_). Value range: 1 to 50 characters. Default value: N/A

Parameter	Mandatory	Type	Description
display_name	Yes	String	Definition: Display name. Constraints: Enter only letters, spaces, digits, hyphens (-), underscores (_), and periods (.). Value range: 1 to 50 characters. Default value: N/A
business_type	Yes	String	Definition: Service type. Constraints: Enter only letters, digits, hyphens (-), and underscores (_). Value range: 1 to 50 characters. Default value: N/A
business_type_display_name	Yes	String	Definition: Service type of the extension. Constraints: N/A Value range: • Build. • Check. • Deploy. • Test. • Normal. Default value: N/A

Parameter	Mandatory	Type	Description
description	Yes	String	Definition: Extension description. Constraints: N/A Value range: N/A Default value: N/A
is_private	No	Integer	Definition: Whether the extension is private. Constraints: N/A Value range: • 1: private. • 0: public. Default value: 0.
region	No	String	Definition: Region. Constraints: N/A Value range: N/A Default value: N/A
maintainers	No	String	Definition: Extension maintainer. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
plugin_composition_type	No	String	Definition: Combination type of an extension. Constraints: N/A Value range: N/A Default value: N/A
manifest_version	No	String	Definition: It is used to distinguish data of the new and old versions. Constraints: N/A Value range: N/A Default value: N/A
version	Yes	String	Definition: Extension version number. Constraints: The value must be in the format of <i>x.xx.xx</i> (for example, 1.0.2), where <i>x</i> is a number ranging from 0 to 99 . <i>xx</i> indicates the number following the dot (.). Each <i>xx</i> can be a one-digit or two-digit number. Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
version_description	No	String	Definition: Description of the minor version of the extension. Constraints: N/A Value range: N/A Default value: N/A
execution_info	Yes	execution_info object	Definition: Execution information. Constraints: N/A Value range: N/A Default value: N/A
output_info	No	Array of output_info objects	Definition: Extension output content. Constraints: N/A Value range: N/A Default value: N/A
input_info	No	Array of input_info objects	Definition: Input Information. Constraints: N/A Value range: N/A Default value: N/A

Table 4-666 execution_info

Parameter	Mandatory	Type	Description
inner_execution_info	Yes	inner_execution_info object	Definition: Extension execution information. Constraints: N/A Value range: N/A Default value: N/A

Table 4-667 inner_execution_info

Parameter	Mandatory	Type	Description
execution_type	No	String	Definition: Extension type. Constraints: N/A Value range: CONTAINER, ZIP, SHELL, or COMPOSITE. Default value: N/A
steps	No	Array of steps objects	Definition: Step list. Constraints: N/A. Value range: N/A. Default value: N/A.

Table 4-668 steps

Parameter	Mandatory	Type	Description
name	No	String	Definition: Task name. Constraints: N/A Value range: N/A Default value: N/A
task	No	String	Definition: Task type. Constraints: N/A Value range: N/A Default value: N/A
variables	No	Map<String,Object>	Definition: Parameter information. Constraints: N/A Value range: N/A Default value: N/A

Table 4-669 output_info

Parameter	Mandatory	Type	Description
name	No	String	Definition: Unique identifier of the extension output configuration. Constraints: N/A Value range: N/A Default value: N/A
version	No	String	Definition: Extension output version number. Constraints: N/A Value range: N/A Default value: N/A
description	No	String	Definition: Description of extension output configuration. Constraints: N/A Value range: N/A Default value: N/A
source	No	String	Definition: Source of extension output configuration. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
type	No	String	Definition: Output type of extension output configuration. Constraints: N/A Value range: N/A Default value: N/A

Table 4-670 input_info

Parameter	Mandatory	Type	Description
name	No	String	Definition: Unique identifier of the extension input configuration. Constraints: N/A Value range: N/A Default value: N/A
default_value	No	String	Definition: Default value of the extension input configuration. If this parameter is not set, the default value is displayed. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
type	No	String	Definition: Input type of the extension input configuration. Constraints: N/A Value range: N/A Default value: N/A
validation	No	String	Definition: Regular expression verification rule of the input content in the extension input configuration. Constraints: N/A Value range: N/A Default value: N/A
layout_content	No	String	Definition: Style information. Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-671 Response body parameters

Parameter	Type	Description
-	Boolean	Definition: Whether the calling is successful. Value range: • true: The calling is successful. • false: The calling fails.

Status code: 400**Table 4-672** Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

POST https://{endpoint}/v1/ce8df55870164338a72d7e828a966a2a/agent-plugin/edit-draft

```
{
  "plugin_name": "apie_test",
  "display_name": "apie_test",
  "business_type": "Normal",
  "description": "",
  "maintainers": "",
  "business_type_display_name": "General",
  "icon_url": "",
  "version": "0.0.1",
  "version_description": "",
  "input_info": [ ],
  "execution_info": {
    "inner_execution_info": {
      "execution_type": "COMPOSITE",
      "steps": [ {
        "task": "official_shell_plugin",
        "name": "Executing the Shell",
        "identifier": "16993543005962cb6e5e8-458a-4382-adfe-9702345ecddb",
        "variables": {
          "OFFICIAL_SHELL_SCRIPT_INPUT": "env"
        }
      }
    ]
  }
}
```

```
"runtime_attribution" : "agent"
}
```

Example Responses

Status code: 200

OK

```
true
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

import java.util.List;
import java.util.ArrayList;

public class UpdatePluginDraftSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        UpdatePluginDraftRequest request = new UpdatePluginDraftRequest();
        request.withDomainId("{domain_id}");
        PluginDTO body = new PluginDTO();
        PluginDTOExecutionInfo executionInfobody = new PluginDTOExecutionInfo();
        executionInfobody.withInnerExecutionInfo("{\"execution_type\":\"COMPOSITE\",\"steps\":{\"identifier\":"
            + "\"16993543005962cb6e5e8-458a-4382-adfe-9702345ecddb\",\"variables\":"
            + "{\"OFFICIAL_SHELL_SCRIPT_INPUT\":{\"env\"},{\"task\":{\"official_shell_plugin\",\"name\":\"Executing the Shell\":"
            + "\"}}}}");
        body.withExecutionInfo(executionInfobody);
        body.withVersionDescription("");
        body.withVersion("0.0.1");
        body.withMaintainers("");
        body.withDescription("");
        body.withBusinessTypeDisplayName("General");
        body.withBusinessType("Normal");
        body.withDisplayName("apie_test");
        body.withPluginName("apie_test");
```

```
body.withRuntimeAttribution("agent");
body.withIconUrl("");
request.withBody(body);
try {
    UpdatePluginDraftResponse response = client.updatePluginDraft(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = UpdatePluginDraftRequest()
        request.domain_id = "{domain_id}"
        executionInfobody = PluginDTOExecutionInfo(
            inner_execution_info="{\"execution_type\": \"COMPOSITE\", \"steps\": [{\"identifier
            \": \"16993543005962cb6e5e8-458a-4382-adfe-9702345ecd\", \"variables\":
            {\"OFFICIAL_SHELL_SCRIPT_INPUT\": {\"env\": {\"task\": \"official_shell_plugin\", \"name\": \"Executing the Shell
            \"}}}}"
        )
        request.body = PluginDTO(
            execution_info=executionInfobody,
            version_description="",
            version="0.0.1",
            maintainers="",
            description="",
            business_type_display_name="General",
            business_type="Normal",
            display_name="apie_test",
            plugin_name="apie_test",
            runtime_attribution="agent",
            icon_url=""
        )
        response = client.update_plugin_draft(request)
```

```
print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UpdatePluginDraftRequest{}
    request.DomainId = "{domain_id}"
    var innerExecutionInfoExecutionInfo interface{} = "{ \"execution_type\": \"COMPOSITE\", \"steps\": "
    [{ \"identifier\": \"16993543005962cb6e5e8-458a-4382-adfe-9702345ecddb\", \"variables\":
    { \"OFFICIAL_SHELL_SCRIPT_INPUT\": \"env\", \"task\": \"official_shell_plugin\", \"name\": \"Executing the Shell
    \"} } }]"
    executionInfobody := &model.PluginDtoExecutionInfo{
        InnerExecutionInfo: &innerExecutionInfoExecutionInfo,
    }
    versionDescriptionPluginDto := ""
    maintainersPluginDto := ""
    iconUrlPluginDto := ""
    request.Body = &model.PluginDto{
        ExecutionInfo: executionInfobody,
        VersionDescription: &versionDescriptionPluginDto,
        Version: "0.0.1",
        Maintainers: &maintainersPluginDto,
        Description: "",
        BusinessTypeDisplayName: "General",
        BusinessType: "Normal",
        DisplayName: "apie_test",
        PluginName: "apie_test",
        RuntimeAttribution: "agent",
        IconUrl: &iconUrlPluginDto,
    }
    response, err := client.UpdatePluginDraft(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```



```
}  
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.7.5 Publishing an Extension Draft

Function

This API is used to publish an extension draft.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v1/{domain_id}/agent-plugin/publish-draft

Table 4-673 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value contains 32 characters, including only letters and digits. Default value: N/A

Request Parameters

Table 4-674 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Table 4-675 Request body parameters

Parameter	Mandatory	Type	Description
[items]	No	Array of PluginPartQueryDTO objects	Definition: Query request body. Constraints: N/A

Table 4-676 PluginPartQueryDTO

Parameter	Mandatory	Type	Description
plugin_name	Yes	String	Definition: Extension name. Constraints: N/A Value range: N/A Default value: N/A
display_name	Yes	String	Definition: Display name. Constraints: N/A Value range: N/A Default value: N/A
version	Yes	String	Definition: Version number. Constraints: N/A Value range: N/A Default value: N/A
plugin_attribution	Yes	String	Definition: Extension attribute. Constraints: N/A Value range: ● custom: custom extension. ● official: official extension. Default value: N/A

Parameter	Mandatory	Type	Description
version_attri bution	No	String	Definition: Version attribute. Constraints: N/A Value range: - draft : draft version. - formal : formal version. Default value: N/A

Response Parameters

Status code: 200

Table 4-677 Response body parameters

Parameter	Type	Description
-	Boolean	Definition: Whether the calling is successful. Value range: • true: The calling is successful. • false: The calling fails.

Status code: 400

Table 4-678 Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

```
POST https://{endpoint}/v1/ce8df55870164338a72d7e828a966a2a/agent-plugin/publish-draft
{
  "plugin_name": "testteset",
  "display_name": "testteset",
  "version": "0.0.1",
  "plugin_attribution": "custom"
}
```

Example Responses

Status code: 200

OK

true

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class PublishPluginDraftSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        PublishPluginDraftRequest request = new PublishPluginDraftRequest();
        request.withDomainId("{domain_id}");
        PluginPartQueryDTO body = new PluginPartQueryDTO();
        body.withPluginAttribution("custom");
        body.withVersion("0.0.1");
        body.withDisplayName("testteset");
        body.withPluginName("testteset");
        request.withBody(body);
        try {
            PublishPluginDraftResponse response = client.publishPluginDraft(request);
            System.out.println(response.toString());
        } catch (ServiceResponseException e) {
            e.printStackTrace();
        }
    }
}
```

```
    } catch (ConnectionException e) {
        e.printStackTrace();
    } catch (RequestTimeoutException e) {
        e.printStackTrace();
    } catch (ServiceResponseException e) {
        e.printStackTrace();
        System.out.println(e.getHttpStatusCode());
        System.out.println(e.getRequestId());
        System.out.println(e.getErrorCode());
        System.out.println(e.getErrorMsg());
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = PublishPluginDraftRequest()
        request.domain_id = "{domain_id}"
        request.body = PluginPartQueryDTO(
            plugin_attribution="custom",
            version="0.0.1",
            display_name="testteset",
            plugin_name="testteset"
        )
        response = client.publish_plugin_draft(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)
```

```
func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.PublishPluginDraftRequest{
        request.DomainId = "{domain_id}"
        request.Body = &model.PluginPartQueryDto{
            PluginAttribution: "custom",
            Version: "0.0.1",
            DisplayName: "testteset",
            PluginName: "testteset",
        }
    }
    response, err := client.PublishPluginDraft(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.7.6 Updating Basic Information of an Extension

Function

This API is used to update basic information of an extension.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v1/{domain_id}/agent-plugin/update-info

Table 4-679 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-680 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Table 4-681 Request body parameters

Parameter	Mandatory	Type	Description
unique_id	No	String	Definition: Extension UUID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
icon_url	No	String	Definition: Extension icon URL. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
runtime_attri bution	No	String	Definition: Running attribute. Constraints: N/A Value range: • agent: agent-based running. • agentless: agentless running. Default value: N/A
plugin_name	Yes	String	Definition: Unique identifier of the extension. Constraints: N/A Value range: N/A Default value: N/A
display_name	Yes	String	Definition: Displayed extension name. Constraints: N/A Value range: N/A Default value: N/A
business_type	Yes	String	Definition: Extension service type. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
business_type_display_name	Yes	String	Definition: Displayed service type of the extension. Constraints: N/A Value range: N/A Default value: N/A
description	No	String	Definition: Extension description. Constraints: N/A Value range: N/A Default value: N/A
is_private	No	Integer	Definition: Whether the extension is private. Constraints: N/A Value range: N/A Default value: N/A
region	No	String	Definition: Region. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
maintainers	No	String	Definition: Maintainer. Constraints: N/A Value range: N/A Default value: N/A
plugin_composition_type	No	String	Definition: Whether a group consists of multiple steps. Constraints: N/A Value range: • single: single-step extension. • multi: multi-step extension. Default value: N/A

Response Parameters

Status code: 200

Table 4-682 Response body parameters

Parameter	Type	Description
-	Boolean	Definition: Whether the calling is successful. Value range: • true: The calling is successful. • false: The calling fails.

Status code: 400

Table 4-683 Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

```
POST https://{endpoint}/v1/ce8df55870164338a72d7e828a966a2a/agent-plugin/update-info
{
  "plugin_name" : "apie_test",
  "display_name" : "apie_test",
  "business_type" : "Normal",
  "description" : "1111",
  "maintainers" : "",
  "business_type_display_name" : "General",
  "icon_url" : ""
}
```

Example Responses

Status code: 200

OK

true

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class UpdatePluginBaseInfoSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
```

security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.

// In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment

```
String ak = System.getenv("CLOUD_SDK_AK");  
String sk = System.getenv("CLOUD_SDK_SK");
```

```
ICredential auth = new BasicCredentials()  
    .withAk(ak)  
    .withSk(sk);
```

```
CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()  
    .withCredential(auth)  
    .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))  
    .build();
```

```
UpdatePluginBaseInfoRequest request = new UpdatePluginBaseInfoRequest();  
request.withDomainId("{domain_id}");  
PluginBasicDTO body = new PluginBasicDTO();  
body.withMaintainers("");  
body.withDescription("1111");  
body.withBusinessTypeDisplayName("General");  
body.withBusinessType("Normal");  
body.withDisplayName("apie_test");  
body.withPluginName("apie_test");  
body.withIconUrl("");  
request.withBody(body);  
try {  
    UpdatePluginBaseInfoResponse response = client.updatePluginBaseInfo(request);  
    System.out.println(response.toString());  
} catch (ConnectionException e) {  
    e.printStackTrace();  
} catch (RequestTimeoutException e) {  
    e.printStackTrace();  
} catch (ServiceResponseException e) {  
    e.printStackTrace();  
    System.out.println(e.getStatusCode());  
    System.out.println(e.getRequestId());  
    System.out.println(e.getErrorCode());  
    System.out.println(e.getErrorMsg());  
}  
}
```

Python

```
# coding: utf-8
```

```
import os  
from huaweicloudsdkcore.auth.credentials import BasicCredentials  
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion  
from huaweicloudsdkcore.exceptions import exceptions  
from huaweicloudsdkcodeartspipeline.v2 import *
```

```
if __name__ == "__main__":
```

```
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
```

```
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
```

```
    ak = os.environ["CLOUD_SDK_AK"]  
    sk = os.environ["CLOUD_SDK_SK"]
```

```
    credentials = BasicCredentials(ak, sk)
```

```
    client = CodeArtsPipelineClient.new_builder() \  
        .with_credentials(credentials) \  
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \  
        .build()
```

```
try:
    request = UpdatePluginBaseInfoRequest()
    request.domain_id = "{domain_id}"
    request.body = PluginBasicDTO(
        maintainers="",
        description="1111",
        business_type_display_name="General",
        business_type="Normal",
        display_name="apie_test",
        plugin_name="apie_test",
        icon_url=""
    )
    response = client.update_plugin_base_info(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UpdatePluginBaseInfoRequest{}
    request.DomainId = "{domain_id}"
    maintainersPluginBasicDto := ""
    descriptionPluginBasicDto := "1111"
    iconUrlPluginBasicDto := ""
    request.Body = &model.PluginBasicDto{
        Maintainers: &maintainersPluginBasicDto,
        Description: &descriptionPluginBasicDto,
        BusinessTypeDisplayName: "General",
        BusinessType: "Normal",
        DisplayName: "apie_test",
        PluginName: "apie_test",
        IconUrl: &iconUrlPluginBasicDto,
    }
    response, err := client.UpdatePluginBaseInfo(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    }
}
```

```
} else {  
    fmt.Println(err)  
}  
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.7.7 Publishing an Extension

Function

This API is used to publish an extension.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v1/{domain_id}/agent-plugin/publish-plugin

Table 4-684 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-685 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Table 4-686 Request body parameters

Parameter	Mandatory	Type	Description
plugin_name	Yes	String	Definition: Extension name. Constraints: N/A Value range: N/A Default value: N/A
version	Yes	String	Definition: Version. Constraints: N/A Value range: N/A Default value: N/A
publisher_unique_id	Yes	String	Definition: Publisher ID. Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-687 Response body parameters

Parameter	Type	Description
-	String	Definition: Whether the calling is successful. Value range: • true: The calling is successful. • false: The calling fails.

Status code: 400**Table 4-688** Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

```
POST https://{endpoint}/v1/ce8df55870164338a72d7e828a966a2a/agent-plugin/publish-plugin
{
  "plugin_name" : "basic_plugin",
  "version" : "0.0.1",
  "publisher_unique_id" : "b9fc8fb6d9194536ac66dd74c2212126"
}
```

Example Responses

Status code: 200

OK

true

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class PublishPluginSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
```

```
environment variables and decrypted during use to ensure security.
// In this example, AK and SK are stored in environment variables for authentication. Before running
this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
String ak = System.getenv("CLOUD_SDK_AK");
String sk = System.getenv("CLOUD_SDK_SK");

ICredential auth = new BasicCredentials()
    .withAk(ak)
    .withSk(sk);

CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
    .withCredential(auth)
    .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
    .build();
PublishPluginRequest request = new PublishPluginRequest();
request.withDomainId("{domain_id}");
PublishPluginDTO body = new PublishPluginDTO();
body.withPublisherUniqueId("b9fc8fb6d9194536ac66dd74c2212126");
body.withVersion("0.0.1");
body.withPluginName("basic_plugin");
request.withBody(body);
try {
    PublishPluginResponse response = client.publishPlugin(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = PublishPluginRequest()
        request.domain_id = "{domain_id}"
        request.body = PublishPluginDTO(
            publisher_unique_id="b9fc8fb6d9194536ac66dd74c2212126",
```

```
        version="0.0.1",
        plugin_name="basic_plugin"
    )
    response = client.publish_plugin(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.PublishPluginRequest{}
    request.DomainId = "{domain_id}"
    request.Body = &model.PublishPluginDto{
        PublisherUniqueId: "b9fc8fb6d9194536ac66dd74c2212126",
        Version: "0.0.1",
        PluginName: "basic_plugin",
    }
    response, err := client.PublishPlugin(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.7.8 Binding an Extension to a Publisher

Function

This API is used to bind an extension to a publisher.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v1/{domain_id}/agent-plugin/publish-plugin-bind

Table 4-689 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID, that is, domain ID of a user. Constraints: N/A Value range: The value consists of 32 characters, including only digits and letters. Default value: N/A

Request Parameters

Table 4-690 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Table 4-691 Request body parameters

Parameter	Mandatory	Type	Description
plugin_name	Yes	String	Definition: Extension name. Constraints: N/A Value range: N/A Default value: N/A
version	Yes	String	Definition: Version. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
publisher_uni que_id	Yes	String	Definition: Publisher ID. Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-692 Response body parameters

Parameter	Type	Description
-	String	Definition: Whether the calling is successful. Value range: • true: The calling is successful. • false: The calling fails.

Status code: 400

Table 4-693 Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

```
POST https://{endpoint}/v1/ce8df55870164338a72d7e828a966a2a/agent-plugin/publish-plugin-bind
{
  "plugin_name" : "basic_plugin",
  "version" : "",
  "publisher_unique_id" : "b9fc8fb6d9194536ac66dd74c2212126"
}
```

Example Responses

Status code: 200

OK

```
true
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class PublishPluginBindSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();

        PublishPluginBindRequest request = new PublishPluginBindRequest();
        request.withDomainId("{domain_id}");
        PublishPluginDTO body = new PublishPluginDTO();
        body.withPublisherUniqueId("b9fc8fb6d9194536ac66dd74c2212126");
        body.withVersion("");
        body.withPluginName("basic_plugin");
        request.withBody(body);
        try {
            PublishPluginBindResponse response = client.publishPluginBind(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        }
    }
}
```

```
    } catch (RequestTimeoutException e) {  
        e.printStackTrace();  
    } catch (ServiceResponseException e) {  
        e.printStackTrace();  
        System.out.println(e.getHttpStatusCode());  
        System.out.println(e.getRequestId());  
        System.out.println(e.getErrorCode());  
        System.out.println(e.getErrorMsg());  
    }  
}  
}
```

Python

```
# coding: utf-8  
  
import os  
from huaweicloudsdkcore.auth.credentials import BasicCredentials  
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion  
from huaweicloudsdkcore.exceptions import exceptions  
from huaweicloudsdkcodeartspipeline.v2 import *  
  
if __name__ == "__main__":  
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    # variables and decrypted during use to ensure security.  
    # In this example, AK and SK are stored in environment variables for authentication. Before running this  
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak = os.environ["CLOUD_SDK_AK"]  
    sk = os.environ["CLOUD_SDK_SK"]  
  
    credentials = BasicCredentials(ak, sk)  
  
    client = CodeArtsPipelineClient.new_builder() \  
        .with_credentials(credentials) \  
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \  
        .build()  
  
    try:  
        request = PublishPluginBindRequest()  
        request.domain_id = "{domain_id}"  
        request.body = PublishPluginDTO(  
            publisher_unique_id="b9fc8fb6d9194536ac66dd74c2212126",  
            version="",  
            plugin_name="basic_plugin"  
        )  
        response = client.publish_plugin_bind(request)  
        print(response)  
    except exceptions.ClientRequestException as e:  
        print(e.status_code)  
        print(e.request_id)  
        print(e.error_code)  
        print(e.error_msg)
```

Go

```
package main  
  
import (  
    "fmt"  
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"  
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"  
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"  
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"  
)  
  
func main() {  
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
```

```
variables and decrypted during use to ensure security.
// In this example, AK and SK are stored in environment variables for authentication. Before running this
example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
ak := os.Getenv("CLOUD_SDK_AK")
sk := os.Getenv("CLOUD_SDK_SK")

auth := basic.NewCredentialsBuilder().
    WithAk(ak).
    WithSk(sk).
    Build()

client := codeartspipeline.NewCodeArtsPipelineClient(
    codeartspipeline.CodeArtsPipelineClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.PublishPluginBindRequest{}
request.DomainId = "{domain_id}"
request.Body = &model.PublishPluginDto{
    PublisherUniqueId: "b9fc8fb6d9194536ac66dd74c2212126",
    Version: "",
    PluginName: "basic_plugin",
}
response, err := client.PublishPluginBind(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.7.9 Updating the Extension Icon

Function

This API is used to update the extension icon.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v1/{domain_id}/common/upload-plugin-icon

Table 4-694 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value contains 32 characters, including only letters and digits. Default value: N/A

Table 4-695 Query Parameters

Parameter	Mandatory	Type	Description
plugin_name	Yes	String	Definition: Extension name. Constraints: Enter only spaces, letters, digits, hyphens (-), underscores (_), and periods (.). Value range: Max. 50 characters. Default value: N/A

Request Parameters

Table 4-696 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Table 4-697 FormData parameters

Parameter	Mandatory	Type	Description
upload_file	Yes	File	Definition: Icon file. Only PNG, JPEG, and JPG files are supported. Max. file size: 512 KB. 128 × 128 pixels are recommended. Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-698 Response body parameters

Parameter	Type	Description
-	String	Definition: Whether the calling is successful. Value range: • true: The calling is successful. • false: The calling fails.

Status code: 400**Table 4-699** Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

```
POST https://{endpoint}/v1/ce8df55870164338a72d7e828a966a2a/common/upload-plugin-icon?
plugin_name=apie_test
```

Example Responses

Status code: 200

OK

```
https://devops.xxx.xxx.cn/devmarket/plugin/new/my-test-
pluginBGqH6-470e9155144d40e98503e806a52d96c9-ScreenShot_20250421165905.PNG
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
```

```
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class UploadPluginIconSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        UploadPluginIconRequest request = new UploadPluginIconRequest();
        request.withDomainId("{domain_id}");
        try {
            UploadPluginIconResponse response = client.uploadPluginIcon(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.getenv("CLOUD_SDK_AK")
    sk = os.getenv("CLOUD_SDK_SK")

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
```

```
.with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
.build()

try:
    request = UploadPluginIconRequest()
    request.domain_id = "{domain_id}"
    response = client.upload_plugin_icon(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UploadPluginIconRequest{}
    request.DomainId = "{domain_id}"
    response, err := client.UploadPluginIcon(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.7.10 Updating the Publisher Icon

Function

This API is used to update the publisher icon.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v1/{domain_id}/common/upload-publisher-icon

Table 4-700 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Table 4-701 Query Parameters

Parameter	Mandatory	Type	Description
publisher_en_name	Yes	String	Definition: Publisher name. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-702 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Table 4-703 FormData parameters

Parameter	Mandatory	Type	Description
upload_file	Yes	File	Definition: Icon file. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Response Parameters

Status code: 200

Table 4-704 Response body parameters

Parameter	Type	Description
-	String	Definition: Icon access path. Value range: N/A

Status code: 400

Table 4-705 Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

```
POST https://{endpoint}/v1/ce8df55870164338a72d7e828a966a2a/common/upload-publisher-icon
```

Example Responses

Status code: 200

OK

```
https://devops.xxx.xxx.cn/devmarket/plugin/new/my-test-  
pluginBGqH6-470e9155144d40e98503e806a52d96c9-ScreenShot_20250421165905.PNG
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;  
  
import com.huaweicloud.sdk.core.auth.ICredential;  
import com.huaweicloud.sdk.core.auth.BasicCredentials;  
import com.huaweicloud.sdk.core.exception.ConnectionException;  
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;  
import com.huaweicloud.sdk.core.exception.ServiceResponseException;  
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;  
import com.huaweicloud.sdk.codeartspipeline.v2.*;  
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;  
  
public class UploadPublisherIconSolution {  
  
    public static void main(String[] args) {  
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great  
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or  
        // environment variables and decrypted during use to ensure security.  
        // In this example, AK and SK are stored in environment variables for authentication. Before running  
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
        String ak = System.getenv("CLOUD_SDK_AK");  
        String sk = System.getenv("CLOUD_SDK_SK");  
  
        ICredential auth = new BasicCredentials()  
            .withAk(ak)  
            .withSk(sk);  
  
        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()  
            .withCredential(auth)  
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))  
            .build();  
        UploadPublisherIconRequest request = new UploadPublisherIconRequest();  
        request.withDomainId("{domain_id}");  
        try {  
            UploadPublisherIconResponse response = client.uploadPublisherIcon(request);  
            System.out.println(response.toString());  
        } catch (ConnectionException e) {  
            e.printStackTrace();  
        } catch (RequestTimeoutException e) {  
            e.printStackTrace();  
        } catch (ServiceResponseException e) {  
            e.printStackTrace();  
            System.out.println(e.getStatusCode());  
            System.out.println(e.getRequestId());  
            System.out.println(e.getErrorCode());  
            System.out.println(e.getErrorMsg());  
        }  
    }  
}
```

```
}  
}
```

Python

```
# coding: utf-8  
  
import os  
from huaweicloudsdkcore.auth.credentials import BasicCredentials  
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion  
from huaweicloudsdkcore.exceptions import exceptions  
from huaweicloudsdkcodeartspipeline.v2 import *  
  
if __name__ == "__main__":  
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    # variables and decrypted during use to ensure security.  
    # In this example, AK and SK are stored in environment variables for authentication. Before running this  
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak = os.environ["CLOUD_SDK_AK"]  
    sk = os.environ["CLOUD_SDK_SK"]  
  
    credentials = BasicCredentials(ak, sk)  
  
    client = CodeArtsPipelineClient.new_builder() \  
        .with_credentials(credentials) \  
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \  
        .build()  
  
    try:  
        request = UploadPublisherIconRequest()  
        request.domain_id = "{domain_id}"  
        response = client.upload_publisher_icon(request)  
        print(response)  
    except exceptions.ClientRequestException as e:  
        print(e.status_code)  
        print(e.request_id)  
        print(e.error_code)  
        print(e.error_msg)
```

Go

```
package main  
  
import (  
    "fmt"  
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"  
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"  
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"  
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"  
)  
  
func main() {  
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    // variables and decrypted during use to ensure security.  
    // In this example, AK and SK are stored in environment variables for authentication. Before running this  
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak := os.Getenv("CLOUD_SDK_AK")  
    sk := os.Getenv("CLOUD_SDK_SK")  
  
    auth := basic.NewCredentialsBuilder().  
        WithAk(ak).  
        WithSk(sk).  
        Build()  
  
    client := codeartspipeline.NewCodeArtsPipelineClient(  
        codeartspipeline.CodeArtsPipelineClientBuilder().  
            WithRegion(region.ValueOf("<YOUR REGION>")).
```

```
        WithCredential(auth).
        Build())

    request := &model.UploadPublisherIconRequest{}
    request.DomainId = "{domain_id}"
    response, err := client.UploadPublisherIcon(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.7.11 Deleting an Extension Draft

Function

This API is used to delete an extension draft.

Calling Method

For details, see [Calling APIs](#).

URI

DELETE /v1/{domain_id}/agent-plugin/delete-draft

Table 4-706 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Table 4-707 Query Parameters

Parameter	Mandatory	Type	Description
plugin_name	Yes	String	Definition: Extension name. Constraints: Enter only letters, digits, hyphens (-), and underscores (_). Value range: 1 to 50 characters. Default value: N/A
version	Yes	String	Definition: Extension version number. Constraints: The value must be in the format of <i>x.xx.xx</i> , where <i>x</i> is a number ranging from 0 to 99. <i>xx</i> indicates the number following the dot (.). Each <i>xx</i> can be a one-digit or two-digit number. Value range: N/A Default value: N/A

Request Parameters

Table 4-708 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-709 Response body parameters

Parameter	Type	Description
-	Boolean	Definition: Whether the calling is successful. Value range: • true: The calling is successful. • false: The calling fails.

Status code: 400

Table 4-710 Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A

Parameter	Type	Description
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

```
DELETE https://{endpoint}/v1/ce8df55870164338a72d7e828a966a2a/agent-plugin/delete-draft?
plugin_name=apie_test&version=0.0.3
```

Example Responses

Status code: 200

OK

```
true
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class DeletePluginDraftSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        DeletePluginDraftRequest request = new DeletePluginDraftRequest();
        request.withDomainId("{domain_id}");
        try {
```

```
        DeletePluginDraftResponse response = client.deletePluginDraft(request);
        System.out.println(response.toString());
    } catch (ConnectionException e) {
        e.printStackTrace();
    } catch (RequestTimeoutException e) {
        e.printStackTrace();
    } catch (ServiceResponseException e) {
        e.printStackTrace();
        System.out.println(e.getHttpStatusCode());
        System.out.println(e.getRequestId());
        System.out.println(e.getErrorCode());
        System.out.println(e.getErrorMsg());
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = DeletePluginDraftRequest()
        request.domain_id = "{domain_id}"
        response = client.delete_plugin_draft(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
```

```
// In this example, AK and SK are stored in environment variables for authentication. Before running this
example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
ak := os.Getenv("CLOUD_SDK_AK")
sk := os.Getenv("CLOUD_SDK_SK")

auth := basic.NewCredentialsBuilder().
    WithAk(ak).
    WithSk(sk).
    Build()

client := codeartspipeline.NewCodeArtsPipelineClient(
    codeartspipeline.CodeArtsPipelineClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.DeletePluginDraftRequest{}
request.DomainId = "{domain_id}"
response, err := client.DeletePluginDraft(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.7.12 Querying the Publisher List

Function

This API is used to query the publisher list.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v1/{domain_id}/publisher/query-all

Table 4-711 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Table 4-712 Query Parameters

Parameter	Mandatory	Type	Description
offset	Yes	String	Definition: Offset where the query starts. This parameter must be used together with limit . Constraints: N/A Value range: The offset value must be no less than 0. Default value: N/A
limit	Yes	String	Definition: Number of records of each query. Constraints: N/A Value range: 1–100. Default value: N/A

Parameter	Mandatory	Type	Description
name	No	String	Definition: Publisher name. Constraints: N/A Value range: N/A Default value: N/A

Request Parameters

Table 4-713 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-714 Response body parameters

Parameter	Type	Description
offset	Integer	Definition: Query offset, which is the same as the offset of the query parameter. Value range: N/A

Parameter	Type	Description
limit	Integer	Definition: Number of records of each query. Value range: The value is no less than 0 .
total	Long	Definition: Number of records queried this time. Value range: N/A
data	Array of PublisherVO objects	Definition: List of queried data. Value range: N/A

Table 4-715 PublisherVO

Parameter	Type	Description
publisher_unique_id	String	Definition: Publisher ID. Obtain the ID by calling the API for querying publisher details . Value range: N/A
user_id	String	Definition: User ID. Value range: N/A
tenant_id	String	Definition: Tenant ID. Value range: N/A
description	String	Definition: Publisher description. Value range: N/A

Parameter	Type	Description
logo_url	String	Definition: Publisher icon URL. Value range: N/A
website	String	Definition: Web page URL entered during publisher creation. Value range: N/A
support_url	String	Definition: Help address entered during publisher creation. Value range: N/A
source_url	String	Definition: Source address entered during publisher creation. Value range: N/A
en_name	String	Definition: Publisher name (English). Value range: N/A
name	String	Definition: Publisher name (Chinese). Value range: N/A
auth_status	String	Definition: Authorization status. Value range: N/A
is_delete	Integer	Definition: Deleted or not. Value range: • 0: not deleted. • 1: deleted.

Parameter	Type	Description
last_update_user_name	String	Definition: Name of the user who last updated the information. Value range: N/A
last_update_user_id	String	Definition: ID of the user who last updated the information. Value range: N/A
last_update_time	String	Definition: Last update time. Value range: N/A

Status code: 400**Table 4-716** Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

```
GET https://{endpoint}/v1/ce8df55870164338a72d7e828a966a2a/publisher/query-all?
name=&limit=10&offset=0&_=1699357492733
```

Example Responses**Status code: 200**

OK

```
{
  "offset" : 0,
```


[illegible]

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
```

```
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class ListPublisherSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        ListPublisherRequest request = new ListPublisherRequest();
        request.withDomainId("{domain_id}");
        try {
            ListPublisherResponse response = client.listPublisher(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.getenv("CLOUD_SDK_AK")
    sk = os.getenv("CLOUD_SDK_SK")

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
```

```
.build()

try:
    request = ListPublisherRequest()
    request.domain_id = "{domain_id}"
    response = client.list_publisher(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListPublisherRequest{}
    request.DomainId = "{domain_id}"
    response, err := client.ListPublisher(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.7.13 Querying the Available Publisher

Function

This API is used to query the available publisher.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v1/{domain_id}/publisher/optional-publisher

Table 4-717 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-718 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200**Table 4-719** Response body parameters

Parameter	Type	Description
[items]	Array of PublisherVO objects	Parameter description: List of available publishers. Constraints: None.

Table 4-720 PublisherVO

Parameter	Type	Description
publisher_unique_id	String	Definition: Publisher ID. Obtain the ID by calling the API for querying publisher details . Value range: N/A

Parameter	Type	Description
user_id	String	Definition: User ID. Value range: N/A
tenant_id	String	Definition: Tenant ID. Value range: N/A
description	String	Definition: Publisher description. Value range: N/A
logo_url	String	Definition: Publisher icon URL. Value range: N/A
website	String	Definition: Web page URL entered during publisher creation. Value range: N/A
support_url	String	Definition: Help address entered during publisher creation. Value range: N/A
source_url	String	Definition: Source address entered during publisher creation. Value range: N/A
en_name	String	Definition: Publisher name (English). Value range: N/A

Parameter	Type	Description
name	String	Definition: Publisher name (Chinese). Value range: N/A
auth_status	String	Definition: Authorization status. Value range: N/A
is_delete	Integer	Definition: Deleted or not. Value range: • 0: not deleted. • 1: deleted.
last_update_user_name	String	Definition: Name of the user who last updated the information. Value range: N/A
last_update_user_id	String	Definition: ID of the user who last updated the information. Value range: N/A
last_update_time	String	Definition: Last update time. Value range: N/A

Status code: 400**Table 4-721** Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A

Parameter	Type	Description
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

GET https://{endpoint}/v1/ce8df55870164338a72d7e828a966a2a/publisher/optional-publisher

Example Responses

Status code: 200

OK

[illegible]

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class ListAvailablePublisherSolution {

    public static void main(String[] args) {
```



```
// The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
environment variables and decrypted during use to ensure security.
// In this example, AK and SK are stored in environment variables for authentication. Before running
this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
String ak = System.getenv("CLOUD_SDK_AK");
String sk = System.getenv("CLOUD_SDK_SK");

ICredential auth = new BasicCredentials()
    .withAk(ak)
    .withSk(sk);

CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
    .withCredential(auth)
    .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
    .build();
ListAvailablePublisherRequest request = new ListAvailablePublisherRequest();
request.withDomainId("{domain_id}");
try {
    ListAvailablePublisherResponse response = client.listAvailablePublisher(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.getenv("CLOUD_SDK_AK")
    sk = os.getenv("CLOUD_SDK_SK")

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListAvailablePublisherRequest()
        request.domain_id = "{domain_id}"
        response = client.list_available_publisher(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
```

```
print(e.error_code)
print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListAvailablePublisherRequest{}
    request.DomainId = "{domain_id}"
    response, err := client.ListAvailablePublisher(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.7.14 Querying the Available Extension List

Function

This API is used to query available extensions.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v1/{domain_id}/relation/stage-plugins

Table 4-722 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-723 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Table 4-724 Request body parameters

Parameter	Mandatory	Type	Description
use_condition	No	String	Definition: Whether the extension can be used by a pipeline or template. Constraints: N/A Value range: • pipeline: The extension can be used by a pipeline. • template: The extension can be used by a template. Default value: N/A

Parameter	Mandatory	Type	Description
comp_id	No	String	Definition: Microservice ID. Constraints: N/A Value range: N/A Default value: N/A
comp_name	No	String	Definition: Microservice name. Constraints: N/A Value range: N/A Default value: N/A
cloud_id	No	String	Definition: Region ID. Constraints: N/A Value range: N/A Default value: N/A
strategy_id	No	String	Definition: Policy ID. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
category	No	String	Definition: Pipeline type. Constraints: N/A Value range: N/A Default value: N/A
publish_tab	No	String	Definition: Whether to release the pipeline. Constraints: N/A Value range: N/A Default value: N/A
platform	No	String	Definition: Deployment platform. Constraints: N/A Value range: N/A Default value: N/A
comp_extend_type	No	String	Definition: Component type. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
deploy_type	No	String	Definition: Deployment type. Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-725 Response body parameters

Parameter	Type	Description
full_stage_plugins_item_list	Array of full_stage_plugins_item_list objects	Definition: Result set. Value range: N/A

Table 4-726 full_stage_plugins_item_list

Parameter	Type	Description
plugins_list	Array of plugins_list objects	Definition: Extension list. Value range: N/A
display_name	String	Definition: Displayed extension name. Value range: N/A
business_type	String	Definition: Extension service type. Value range: N/A

Parameter	Type	Description
unique_id	String	Definition: Extension ID. Default value: N/A
conditions	Array of strings	Definition: Running conditions. Value range: N/A
addables	Array of addables objects	Definition: Additional attribute. Value range: N/A
editable	Boolean	Definition: Editable parameter or not. Value range: • true: editable. • false: not editable.
removable	Boolean	Definition: Removable or not. Value range: • true: removable. • false: not removable.
cloneable	Boolean	Definition: Whether the extension can be cloned. Value range: • true: The extension can be cloned. • false: The extension cannot be cloned.
disabled	Boolean	Definition: Disabled or not. Value range: • true: disabled. • false: not disabled.

Table 4-727 plugins_list

Parameter	Type	Description
unique_id	String	Definition: ID. Value range: N/A
display_name	String	Definition: Display name. Value range: N/A
plugin_name	String	Definition: Extension name. Value range: N/A
disabled	Boolean	Definition: Whether the current extension is disabled for subsequent pipelines. The default value is false . Value range: • true: disabled. • false: not disabled.
db_record_name	String	Definition: Display name of an extension record. Value range: N/A
group_name	String	Definition: Name of the group in a pipeline stage. Value range: N/A
group_type	String	Definition: Group type in a pipeline stage. Value range: N/A
plugin_attribution	String	Definition: Whether the extension is an official one. Value range: N/A

Parameter	Type	Description
plugin_composition_type	String	Definition: Whether a group consists of multiple steps. Value range: • single: single-step extension. • multi: multi-step extension.
runtime_attribute	String	Definition: Running attribute. Value range: • agent: Pipeline agent is required for running. • agentLess: No pipeline agent is required.
all_steps	Array of all_steps objects	Definition: Basic extension list. Value range: N/A
description	String	Definition: Extension description. Value range: N/A
version_attribute	String	Definition: Whether it is a draft extension. Value range: N/A
icon_url	String	Definition: Extension icon URL. Value range: N/A
multi_step_editable	Integer	Definition: Whether steps can be added. The default value is 1 , indicating that steps can be added. Value range: • 0: The steps cannot be added. • 1: You can continue to add steps.

Parameter	Type	Description
location	String	Definition: Usage position. Value range: N/A
publisher_unique_id	String	Definition: Publisher ID. Value range: N/A
manifest_version	String	Definition: Extension version identifier. Value range: N/A
standard	Boolean	Definition: Whether the extension is standardized. Value range: • true: The extension is standardized. • false: The extension is not standardized.

Table 4-728 all_steps

Parameter	Type	Description
plugin_name	String	Definition: Extension name. Value range: N/A
display_name	String	Definition: Displayed extension name. Value range: N/A
version	String	Definition: Extension version number. Value range: N/A

Table 4-729 addables

Parameter	Type	Description
additionalProp1	Boolean	Definition: Additional attribute 1. Value range: N/A
additionalProp2	Boolean	Definition: Additional attribute 2. Value range: N/A
additionalProp3	Boolean	Definition: Additional attribute 3. Value range: N/A

Status code: 400**Table 4-730** Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

```
POST https://{endpoint}/v1/ce8df55870164338a72d7e828a966a2a/relation/stage-plugins
{
  "use_condition": "pipeline"
}
```

Example Responses

Status code: 200

OK

```
{
  "full_stage_plugins_item_list" : [ {
    "plugins_list" : [ {
      "unique_id" : "47d48e84-8a98-4ad1-8bc0-59c112a05c5b",
      "display_name" : "CloudBuild",
      "plugin_name" : "official_devcloud_cloudBuild",
      "disabled" : false,
      "group_name" : null,
      "group_type" : null,
      "plugin_attribution" : "official",
      "plugin_composition_type" : "single",
      "runtime_attribution" : "agent",
      "all_steps" : null,
      "description" : "CloudBuild capabilities can be called on the pipeline for building.CloudBuild provides an
easy-to-use, cloud-based build platform that supports multiple programming languages, helping you
achieve continuous delivery, with shorter delivery period and higher delivery efficiency. With CloudBuild, you
can create, configure, and run build tasks with a few clicks. CloudBuild also supports automation of code
retrieval, building, and packaging, as well as real-time status monitoring.",
      "version_attribution" : "formal",
      "icon_url" : "/api/v1/*/common/get-plugin-icon?object_key=official_devcloud_cloudBuild-
d81c87f9977d4923a546d067a0001914- Build.png-ce8df55870164338a72d7e828a966a2a",
      "multi_step_editable" : 0,
      "standard" : true
    } ],
    "display_name" : "Build",
    "business_type" : "Build",
    "unique_id" : "f44ca008-ae9b-45ee-905d-711429382c71",
    "conditions" : null,
    "addables" : null,
    "editable" : false,
    "removable" : false,
    "cloneable" : false,
    "disabled" : false
  } ]
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class ListStagePluginsSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);
```

```
CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
    .withCredential(auth)
    .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
    .build();
ListStagePluginsRequest request = new ListStagePluginsRequest();
request.withDomainId("{domain_id}");
StagePluginsQueryDTO body = new StagePluginsQueryDTO();
body.withUseCondition("pipeline");
request.withBody(body);
try {
    ListStagePluginsResponse response = client.listStagePlugins(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListStagePluginsRequest()
        request.domain_id = "{domain_id}"
        request.body = StagePluginsQueryDTO(
            use_condition="pipeline"
        )
        response = client.list_stage_plugins(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListStagePluginsRequest{}
    request.DomainId = "{domain_id}"
    useConditionStagePluginsQueryDto := "pipeline"
    request.Body = &model.StagePluginsQueryDto{
        UseCondition: &useConditionStagePluginsQueryDto,
    }
    response, err := client.ListStagePlugins(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.7.15 Querying the Basic Extension List

Function

This API is used to query the basic extension list.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v1/{domain_id}/relation/plugin/single

Table 4-731 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Table 4-732 Query Parameters

Parameter	Mandatory	Type	Description
attribution	Yes	String	Definition: Extension attribute. Constraints: N/A Value range: • official: extension published by the official party. • published: extension published by the second party. Default value: N/A
offset	Yes	String	Definition: Offset where the query starts. This parameter must be used together with limit . Constraints: N/A Value range: The offset value must be no less than 0. Default value: N/A
limit	Yes	String	Definition: Number of records of each query. Constraints: N/A Value range: 1–100. Default value: N/A

Request Parameters

Table 4-733 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-734 Response body parameters

Parameter	Type	Description
offset	Integer	Definition: Offset where the query starts. Value range: The offset value must be no less than 0.
limit	Integer	Definition: Number of records of each query. Value range: The value is no less than 0.
total	Integer	Definition: Total number of queried static rules. Value range: N/A

Parameter	Type	Description
data	Array of data objects	Definition: Result set. Value range: N/A

Table 4-735 data

Parameter	Type	Description
name	String	Definition: Unique identifier of the extension. Value range: N/A
display_name	String	Definition: The extension name displayed in the extension platform and pipeline. Value range: N/A
plugin_attribution	String	Definition: Whether the extension is an official one. Value range: N/A
icon_url	String	Definition: Icon URL. Value range: N/A
description	String	Definition: Extension description. Value range: N/A
publisher_id	String	Definition: Publisher ID. Value range: N/A

Parameter	Type	Description
manifest_version	String	Definition: Version. Value range: N/A

Status code: 400

Table 4-736 Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

GET https://{endpoint}/v1/ce8df55870164338a72d7e828a966a2a/relation/plugin/single?limit=10&offset=0&attribution=official&_=1699356895028

Example Responses

Status code: 200

OK

```
{
  "offset" : 0,
  "limit" : 10,
  "total" : 3,
  "data" : [ {
    "name" : "official_shell_plugin",
    "display_name" : "Executing the Shell",
    "plugin_attribution" : "official",
    "icon_url" : "",
    "description" : "Used to run user shell commands.",
    "publisher_id" : null,
    "manifest_version" : "3"
  }, {
    "name" : "test_plugin_230725",
    "display_name" : "Testing the New Plug-in Process 2307251",
    "plugin_attribution" : "official",
    "icon_url" : "/api/v1/*/common/get-plugin-icon?object_key=test_plugin_230725-b7b10ddbbae14356ab16d649a43d7776-20210811-153521(WeLinkPC).png-ce8df55870164338a72d7e828a966a2a&icon_type=plugin",
  } ]
}
```

```
"description" : "Here is the description.",
"publisher_id" : null,
"manifest_version" : "3"
}, {
  "name" : "official_git_clone",
  "display_name" : "official_git_clone",
  "plugin_attribution" : "official",
  "icon_url" : "",
  "description" : "Download the code library configured in the pipeline source.",
  "publisher_id" : null,
  "manifest_version" : null
}]
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class ListBasePluginsSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        ListBasePluginsRequest request = new ListBasePluginsRequest();
        request.withDomainId("{domain_id}");
        try {
            ListBasePluginsResponse response = client.listBasePlugins(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

```
}  
}
```

Python

```
# coding: utf-8  
  
import os  
from huaweicloudsdkcore.auth.credentials import BasicCredentials  
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion  
from huaweicloudsdkcore.exceptions import exceptions  
from huaweicloudsdkcodeartspipeline.v2 import *  
  
if __name__ == "__main__":  
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    # variables and decrypted during use to ensure security.  
    # In this example, AK and SK are stored in environment variables for authentication. Before running this  
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak = os.environ["CLOUD_SDK_AK"]  
    sk = os.environ["CLOUD_SDK_SK"]  
  
    credentials = BasicCredentials(ak, sk)  
  
    client = CodeArtsPipelineClient.new_builder() \  
        .with_credentials(credentials) \  
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \  
        .build()  
  
    try:  
        request = ListBasePluginsRequest()  
        request.domain_id = "{domain_id}"  
        response = client.list_base_plugins(request)  
        print(response)  
    except exceptions.ClientRequestException as e:  
        print(e.status_code)  
        print(e.request_id)  
        print(e.error_code)  
        print(e.error_msg)
```

Go

```
package main  
  
import (  
    "fmt"  
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"  
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"  
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"  
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"  
)  
  
func main() {  
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    // variables and decrypted during use to ensure security.  
    // In this example, AK and SK are stored in environment variables for authentication. Before running this  
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak := os.Getenv("CLOUD_SDK_AK")  
    sk := os.Getenv("CLOUD_SDK_SK")  
  
    auth := basic.NewCredentialsBuilder().  
        WithAk(ak).  
        WithSk(sk).  
        Build()  
  
    client := codeartspipeline.NewCodeArtsPipelineClient(  
        codeartspipeline.CodeArtsPipelineClientBuilder().  
            WithRegion(region.ValueOf("<YOUR REGION>")).
```

```
WithCredential(auth).
Build())

request := &model.ListBasePluginsRequest{}
request.DomainId = "{domain_id}"
response, err := client.ListBasePlugins(request)
if err == nil {
    fmt.Printf("%v\n", response)
} else {
    fmt.Println(err)
}
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.7.16 Querying the Available Extensions by Page

Function

This API is used to query the available extensions by page.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v1/{domain_id}/relation/plugins

Table 4-737 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Table 4-738 Query Parameters

Parameter	Mandatory	Type	Description
offset	Yes	Integer	Definition: Offset where the query starts. Constraints: N/A Value range: The offset value must be no less than 0. Default value: N/A
limit	Yes	Integer	Definition: Number of records of each query. Constraints: N/A Value range: The value is no less than 0. Default value: N/A

Request Parameters

Table 4-739 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Table 4-740 Request body parameters

Parameter	Mandatory	Type	Description
use_condition	No	String	Definition: Whether the extension can be used by a pipeline or template. Constraints: N/A Value range: • pipeline: The extension can be used by a pipeline. • template: The extension can be used by a template. Default value: N/A

Parameter	Mandatory	Type	Description
input_repo_type	No	String	Definition: Source code repository type, such as CodeArts Repo, GitLab, and GitHub. Constraints: N/A Value range: • CodeArts Repo. • Gitee. • GitHub. • GitCode. • GitLab. Default value: N/A
input_source_type	No	String	Definition: Single-source or multi-source. Constraints: N/A Value range: N/A Default value: N/A
business_type	No	String	Definition: Service type. Constraints: N/A Value range: N/A Default value: N/A
regex_name	No	String	Definition: Matching name. Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-741 Response body parameters

Parameter	Type	Description
offset	Integer	Definition: Offset where the query starts. Constraints: N/A Value range: The offset value must be no less than 0. Default value: N/A
limit	Integer	Definition: Number of records of each query. Constraints: N/A Value range: The value is no less than 0. Default value: N/A
total	Integer	Definition: Total number of items. Value range: The value is no less than 0.
data	Array of data objects	Definition: Result set. Value range: N/A

Table 4-742 data

Parameter	Type	Description
business_type	String	Definition: Service type. Value range: N/A
display_name	String	Definition: Display name. Value range: N/A
unique_id	String	Definition: ID. Value range: N/A
editable	Boolean	Definition: Editable parameter or not. Value range: • true: editable. • false: not editable.
removable	Boolean	Definition: Removable or not. Value range: • true: removable. • false: not removable.
cloneable	Boolean	Definition: Whether the extension can be cloned. Value range: • true: The extension can be cloned. • false: The extension cannot be cloned.
disabled	Boolean	Definition: Disabled or not. Value range: • true: disabled. • false: not disabled.

Parameter	Type	Description
addables	Array of Map<String,Boolean> objects	Definition: Whether the object can be added. Value range: N/A
conditions	Array of strings	Definition: Condition. Value range: N/A
plugins_list	Array of plugins_list objects	Definition: Extension list. Value range: N/A

Table 4-743 plugins_list

Parameter	Type	Description
unique_id	String	Definition: ID. Value range: N/A
display_name	String	Definition: Display name. Value range: N/A
plugin_name	String	Definition: Extension name. Value range: N/A
disabled	Boolean	Definition: Disabled or not. Value range: • true: disabled. • false: not disabled.

Parameter	Type	Description
group_name	String	Definition: Group name. Value range: N/A
group_type	String	Definition: Group type. Value range: N/A
standard	Boolean	Definition: Whether the extension is standardized. Value range: • true: Yes. • false: No.
db_record_name	String	Definition: Extension record name. Value range: N/A
plugin_attribution	String	Definition: Extension attribute. Value range: N/A
plugin_composition_type	String	Definition: Multi-step extension. Value range: N/A
runtime_attribution	String	Definition: Extension running attribute. Value range: N/A
all_steps	Array of all_steps objects	Definition: Basic extension list. Value range: N/A

Parameter	Type	Description
description	String	Definition: Extension description. Value range: N/A
version_attribution	String	Definition: Extension version attribute. Value range: N/A
icon_url	String	Definition: URL of the extension icon. Value range: N/A
multi_step_editable	Integer	Definition: The extension can be edited. Value range: N/A
location	String	Definition: Extension address. Value range: N/A
publisher_unique_id	String	Definition: Extension publisher ID. Value range: N/A
manifest_version	String	Definition: Extension version. Value range: N/A

Table 4-744 all_steps

Parameter	Type	Description
plugin_name	String	Definition: Extension name. Value range: N/A

Parameter	Type	Description
display_name	String	Definition: Display name. Value range: N/A
version	String	Definition: Version. Value range: N/A

Status code: 400

Table 4-745 Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

```
POST https://{endpoint}/v1/ce8df55870164338a72d7e828a966a2a/relation/plugins?limit=4&offset=0
{
  "input_repo_type": "codehub",
  "input_source_type": "single",
  "use_condition": "pipeline",
  "business_type": "",
  "regex_name": ""
}
```

Example Responses

Status code: 200

OK

```
{
  "offset" : 0,
  "limit" : 4,
  "total" : 246,
```



```
"data": {
  "plugins_list": [ {
    "unique_id": "1bfe2cd6b6f44fe3a918768e0391144f",
    "display_name": "1030 test",
    "plugin_name": "132132132231",
    "disabled": false,
    "group_name": null,
    "group_type": null,
    "plugin_attribution": "custom",
    "plugin_composition_type": "single",
    "runtime_attribution": "agent",
    "all_steps": null,
    "description": "",
    "version_attribution": "formal",
    "icon_url": "",
    "multi_step_editable": 1,
    "location": "pipeline.service",
    "publisher_unique_id": null,
    "manifest_version": "3"
  }, {
    "unique_id": "84b6d96b240644b8a9c529981759a6d2",
    "display_name": "Release",
    "plugin_name": "create_test_2",
    "disabled": false,
    "group_name": null,
    "group_type": null,
    "plugin_attribution": "custom",
    "plugin_composition_type": "multi",
    "runtime_attribution": "agent",
    "all_steps": null,
    "description": "test",
    "version_attribution": "formal",
    "icon_url": "",
    "multi_step_editable": 1,
    "location": "pipeline.service",
    "publisher_unique_id": null,
    "manifest_version": "3"
  }, {
    "unique_id": "816c527f9ba34904b84823718633ecd",
    "display_name": "Plug-in Creation Test",
    "plugin_name": "create_test.plugin_draft",
    "disabled": false,
    "group_name": null,
    "group_type": null,
    "plugin_attribution": "custom",
    "plugin_composition_type": "multi",
    "runtime_attribution": "agent",
    "all_steps": null,
    "description": "test",
    "version_attribution": "draft",
    "icon_url": "",
    "multi_step_editable": 1,
    "location": "pipeline.service",
    "publisher_unique_id": null,
    "manifest_version": "3"
  }, {
    "unique_id": "6e7a5fe5e7214ce6858087357a4bf79b",
    "display_name": "Plug-in Version Description Test",
    "plugin_name": "plugin_version_test",
    "disabled": false,
    "group_name": null,
    "group_type": null,
    "plugin_attribution": "custom",
    "plugin_composition_type": "single",
    "runtime_attribution": "agent",
    "all_steps": null,
    "description": "Plug-in Version Description Test",
    "version_attribution": "formal",
    "icon_url": ""
  }
]
```

```
    "multi_step_editable" : 1,
    "location" : "pipeline.service",
    "publisher_unique_id" : null,
    "manifest_version" : "3"
  } ],
  "display_name" : "Check",
  "business_type" : "Gate",
  "unique_id" : "032ad7e2-5e19-4e90-8517-0958deb89e12",
  "conditions" : null,
  "editable" : false,
  "removable" : false,
  "cloneable" : false,
  "disabled" : false
}
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class ListBasePluginsNewPostSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        ListBasePluginsNewPostRequest request = new ListBasePluginsNewPostRequest();
        request.withDomainId("{domain_id}");
        BusinessTypePluginsQueryDTO body = new BusinessTypePluginsQueryDTO();
        body.withRegexName("");
        body.withBusinessType("");
        body.withInputSourceType("single");
        body.withInputRepoType("codehub");
        body.withUseCondition("pipeline");
        request.withBody(body);
        try {
            ListBasePluginsNewPostResponse response = client.listBasePluginsNewPost(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        }
    }
}
```

```
        e.printStackTrace();
    } catch (ServiceResponseException e) {
        e.printStackTrace();
        System.out.println(e.getHttpStatusCode());
        System.out.println(e.getRequestId());
        System.out.println(e.getErrorCode());
        System.out.println(e.getErrorMsg());
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListBasePluginsNewPostRequest()
        request.domain_id = "{domain_id}"
        request.body = BusinessTypePluginsQueryDTO(
            regex_name="",
            business_type="",
            input_source_type="single",
            input_repo_type="codehub",
            use_condition="pipeline"
        )
        response = client.list_base_plugins_new_post(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
```

```
risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
// In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
ak := os.Getenv("CLOUD_SDK_AK")
sk := os.Getenv("CLOUD_SDK_SK")

auth := basic.NewCredentialsBuilder().
    WithAk(ak).
    WithSk(sk).
    Build()

client := codeartspipeline.NewCodeArtsPipelineClient(
    codeartspipeline.CodeArtsPipelineClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.ListBasePluginsNewPostRequest{}
request.DomainId = "{domain_id}"
regexNameBusinessTypePluginsQueryDto:= ""
businessTypeBusinessTypePluginsQueryDto:= ""
inputSourceTypeBusinessTypePluginsQueryDto:= "single"
inputRepoTypeBusinessTypePluginsQueryDto:= "codehub"
useConditionBusinessTypePluginsQueryDto:= "pipeline"
request.Body = &model.BusinessTypePluginsQueryDto{
    RegexName: &regexNameBusinessTypePluginsQueryDto,
    BusinessType: &businessTypeBusinessTypePluginsQueryDto,
    InputSourceType: &inputSourceTypeBusinessTypePluginsQueryDto,
    InputRepoType: &inputRepoTypeBusinessTypePluginsQueryDto,
    UseCondition: &useConditionBusinessTypePluginsQueryDto,
}
response, err := client.ListBasePluginsNewPost(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.7.17 Querying the Extension List

Function

This API is used to query the extension list.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v1/{domain_id}/agent-plugin/query-all

Table 4-746 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Table 4-747 Query Parameters

Parameter	Mandatory	Type	Description
offset	Yes	String	Definition: Offset where the query starts. This parameter must be used together with limit . Constraints: N/A Value range: The offset value must be no less than 0. Default value: N/A
limit	Yes	String	Definition: Number of records of each query. Constraints: N/A Value range: 1–100. Default value: N/A

Request Parameters

Table 4-748 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Table 4-749 Request body parameters

Parameter	Mandatory	Type	Description
plugin_name	No	String	Definition: Search criteria-extension name. Constraints: N/A Value range: N/A Default value: N/A
regex_name	No	String	Definition: Search criteria-match name. Constraints: N/A Value range: N/A Default value: N/A
maintainer	No	String	Definition: Maintainer. Constraints: N/A Value range: N/A Default value: N/A
business_type	No	Array of strings	Definition: Service type. Constraints: N/A Value range: • Build. • Gate. • Deploy. • Test. • Normal. Default value: N/A

Parameter	Mandatory	Type	Description
plugin_attribution	No	String	Definition: Extension attribute. Constraints: N/A Value range: • official: custom extension. • custom: basic extension. Default value: N/A

Response Parameters

Status code: 200

Table 4-750 Response body parameters

Parameter	Type	Description
offset	Integer	Definition: Offset where the query starts. Constraints: N/A Value range: The offset value must be no less than 0. Default value: 0.
limit	Integer	Definition: Number of records of each query. Constraints: N/A Value range: The value is no less than 0. Default value: N/A
total	Integer	Definition: Total number of items. Value range: The value is no less than 0.

Parameter	Type	Description
data	Array of PluginBasicVO objects	Definition: Extension list. Value range: N/A

Table 4-751 PluginBasicVO

Parameter	Type	Description
plugin_name	String	Definition: Extension name. Value range: 1 to 50 characters.
display_name	String	Definition: Extension name. Value range: N/A
db_record_name	String	Definition: Display name of extension record. Value range: N/A
version	String	Definition: Extension version number. Value range: N/A
version_description	String	Definition: Extension version number description. Value range: N/A
description	String	Definition: Extension description. Value range: N/A

Parameter	Type	Description
version_attribution	String	Definition: Extension version attribute. Value range: - draft : draft version. - formal : formal version.
unique_id	String	Definition: Extension ID. Value range: N/A
op_user	String	Definition: User who last updated the extension. Value range: N/A
op_time	String	Definition: Time when the extension was last updated. Value range: N/A
plugin_composition_type	String	Definition: Whether the extension consists of multiple steps. Value range: • multi: multi-step extension. • single: single-step extension.
plugin_attribution	String	Definition: Extension attribute. Value range: • custom: custom extension. • official: official extension. • published: extension published by the publisher.
workspace_id	String	Definition: Tenant ID, that is, domain ID of a user. Value range: The value consists of 32 characters, including only digits and letters.

Parameter	Type	Description
business_type	String	Definition: Extension service type. Value range: N/A
business_type_display_name	String	Definition: Displayed service type of the extension. Value range: N/A
maintainers	String	Definition: Extension maintainer. Value range: N/A
icon_url	String	Definition: Extension icon address. Value range: N/A
refer_count	Integer	Definition: Number of times that the extension is referenced by pipelines. Value range: N/A
usage_count	Integer	Definition: Number of times that the extension is used by pipelines. Value range: N/A
runtime_attribute	String	Definition: Running attribute. Value range: • agent: Pipeline agent is required for running. • agentLess: No pipeline agent is required.

Parameter	Type	Description
active	Integer	Definition: Whether the extension is activated. Value range: • true: activated. • false: not activated.
version_state	String	Definition: Status of the current extension version. Value range: N/A
publisher_unique_id	String	Definition: Publisher ID. Value range: N/A
creator	String	Definition: Creator name. Value range: N/A
create_time	String	Definition: Creation time. Value range: N/A
manifest_version	String	Definition: Extension version identifier. Value range: N/A

Status code: 400

Table 4-752 Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A

Parameter	Type	Description
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

```
POST https://{endpoint}/v1/ce8df55870164338a72d7e828a966a2a/agent-plugin/query-all?offset=0&limit=3
{
  "plugin_name": "",
  "maintainer": "",
  "business_type": [ "Build", "Gate", "Deploy", "Test", "Normal" ],
  "plugin_attribution": "custom"
}
```

Example Responses

Status code: 200

OK

```
{
  "offset" : 0,
  "limit" : 3,
  "total" : 32,
  "data" : [ {
    "plugin_name" : "basic_plugin",
    "display_name" : "basic_plugin",
    "version" : "",
    "version_description" : null,
    "description" : "",
    "version_attribution" : "init",
    "unique_id" : "83edd75a8be5406496d9fc63ce6c984e",
    "op_user" : "devcloud_devcloud_h00485561_01",
    "op_time" : "1699355741000",
    "plugin_composition_type" : "single",
    "plugin_attribution" : "custom",
    "workspace_id" : "ce8df55870164338a72d7e828a966a2a",
    "business_type" : "Normal",
    "business_type_display_name" : "General",
    "maintainers" : "",
    "icon_url" : "",
    "refer_count" : null,
    "usage_count" : null,
    "runtime_attribution" : "agent",
    "active" : 1
  }, {
    "plugin_name" : "apie_test",
    "display_name" : "apie_test",
    "version" : "0.0.2",
    "version_description" : "",
    "description" : "",
    "version_attribution" : "formal",
    "unique_id" : "8287cdb4908741f889ed307d265677d1",
    "op_user" : "devcloud_devcloud_h00485561_01",
    "op_time" : "1699354371000",
    "plugin_composition_type" : "multi",
    "plugin_attribution" : "custom",
    "workspace_id" : "ce8df55870164338a72d7e828a966a2a",
```

```
"business_type" : "Normal",
"business_type_display_name" : "General",
"maintainers" : "",
"icon_url" : "",
"refer_count" : 0,
"usage_count" : null,
"runtime_attribution" : "agent",
"active" : 0
}, {
  "plugin_name" : "asdasadsas",
  "display_name" : "dasddasas",
  "version" : "",
  "version_description" : null,
  "description" : "",
  "version_attribution" : "init",
  "unique_id" : "4fccd9e61c424d1298cc9e5f71e7c9e7",
  "op_user" : "devcloud_devcloud_h00485561_01",
  "op_time" : "1699325617000",
  "plugin_composition_type" : "single",
  "plugin_attribution" : "custom",
  "workspace_id" : "ce8df55870164338a72d7e828a966a2a",
  "business_type" : "Gate",
  "business_type_display_name" : "Check",
  "maintainers" : "",
  "icon_url" : "",
  "refer_count" : null,
  "usage_count" : null,
  "runtime_attribution" : "agent",
  "active" : 1
}]
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

import java.util.List;
import java.util.ArrayList;

public class ListPluginsSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
```

```
.withCredential(auth)
.withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
.build();
ListPluginsRequest request = new ListPluginsRequest();
request.withDomainId("{domain_id}");
AgentPluginInfoQueryDTO body = new AgentPluginInfoQueryDTO();
List<String> listbodyBusinessType = new ArrayList<>();
listbodyBusinessType.add("Build");
listbodyBusinessType.add("Gate");
listbodyBusinessType.add("Deploy");
listbodyBusinessType.add("Test");
listbodyBusinessType.add("Normal");
body.withPluginAttribution("custom");
body.withBusinessType(listbodyBusinessType);
body.withMaintainer("");
body.withPluginName("");
request.withBody(body);
try {
    ListPluginsResponse response = client.listPlugins(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListPluginsRequest()
        request.domain_id = "{domain_id}"
        listBusinessTypebody = [
            "Build",
            "Gate",
            "Deploy",
            "Test",
            "Normal"
        ]
```

```
]
request.body = AgentPluginInfoQueryDTO(
    plugin_attribution="custom",
    business_type=listBusinessTypebody,
    maintainer="",
    plugin_name=""
)
response = client.list_plugins(request)
print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListPluginsRequest{}
    request.DomainId = "{domain_id}"
    var listBusinessTypebody = []string{
        "Build",
        "Gate",
        "Deploy",
        "Test",
        "Normal",
    }
    pluginAttributionAgentPluginInfoQueryDto := "custom"
    maintainerAgentPluginInfoQueryDto := ""
    pluginNameAgentPluginInfoQueryDto := ""
    request.Body = &model.AgentPluginInfoQueryDto{
        PluginAttribution: &pluginAttributionAgentPluginInfoQueryDto,
        BusinessType: &listBusinessTypebody,
        Maintainer: &maintainerAgentPluginInfoQueryDto,
        PluginName: &pluginNameAgentPluginInfoQueryDto,
    }
    response, err := client.ListPlugins(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
```



```
    fmt.Println(err)
  }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.7.18 Querying Extension Indicator Configuration

Function

This API is used to query extension indicator configuration.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v1/{domain_id}/agent-plugin/plugin-metrics

Table 4-753 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-754 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Table 4-755 Request body parameters

Parameter	Mandatory	Type	Description
[items]	No	Array of PluginPartQueryDTO objects	Definition: Query request body. Constraints: N/A

Table 4-756 PluginPartQueryDTO

Parameter	Mandatory	Type	Description
plugin_name	Yes	String	Definition: Extension name. Constraints: N/A Value range: N/A Default value: N/A
display_name	Yes	String	Definition: Display name. Constraints: N/A Value range: N/A Default value: N/A
version	Yes	String	Definition: Version number. Constraints: N/A Value range: N/A Default value: N/A
plugin_attribution	Yes	String	Definition: Extension attribute. Constraints: N/A Value range: ● custom: custom extension. ● official: official extension. Default value: N/A

Parameter	Mandatory	Type	Description
version_attri bution	No	String	Definition: Version attribute. Constraints: N/A Value range: - draft : draft version. - formal : formal version. Default value: N/A

Response Parameters

Status code: 200

Table 4-757 Response body parameters

Parameter	Type	Description
[items]	Array of PluginPartQuery-VOListAgentPluginOutputVO objects	Parameter description: List of extension metric configurations. Constraints: None.

Table 4-758 PluginPartQueryVOListAgentPluginOutputVO

Parameter	Type	Description
plugin_name	String	Definition: Extension name. Value range: N/A
display_name	String	Definition: Displayed extension name. Value range: N/A
data	Array of data objects	Definition: Extension output details. Value range: N/A

Table 4-759 data

Parameter	Type	Description
unique_id	String	Definition: ID. Value range: N/A
plugin_name	String	Definition: Extension name. Value range: N/A
version	String	Definition: Extension version number. Value range: N/A
workspace_id	String	Definition: Tenant ID. Value range: N/A
output_key	String	Definition: Defined extension output name. Value range: N/A
output_value	String	Definition: Defined extension output content. Value range: N/A

Status code: 400**Table 4-760** Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A

Parameter	Type	Description
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

```
POST https://{endpoint}/v1/ce8df55870164338a72d7e828a966a2a/agent-plugin/plugin-metrics

[ {
  "plugin_name" : "test_multi_language",
  "version" : "0.0.11",
  "plugin_attribution" : "official"
} ]
```

Example Responses

Status code: 200

OK

```
[ {
  "plugin_name" : "test_multi_language",
  "display_name" : "",
  "data" : [ {
    "unique_id" : "2df0e830196247f8a10cd598b045fa8a",
    "plugin_name" : "test_multi_language",
    "version" : "0.0.11",
    "workspace_id" : "*",
    "output_key" : "SYSTEM_METRICS_UNIQUE_KEY",
    "output_value" : "[{"group_name\\":\\"Chinese \\",\\"properties\\":[{"key\\":\\"test\\",\\"value\\":\\"111\\",\\"desc\\":\\"Chinese \\"}]]"
  } ]
} ]
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

import java.util.List;
import java.util.ArrayList;

public class ShowPluginMetricsSolution {

    public static void main(String[] args) {
```

```
// The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
environment variables and decrypted during use to ensure security.
// In this example, AK and SK are stored in environment variables for authentication. Before running
this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
String ak = System.getenv("CLOUD_SDK_AK");
String sk = System.getenv("CLOUD_SDK_SK");

ICredential auth = new BasicCredentials()
    .withAk(ak)
    .withSk(sk);

CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
    .withCredential(auth)
    .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
    .build();
ShowPluginMetricsRequest request = new ShowPluginMetricsRequest();
request.withDomainId("{domain_id}");
List<PluginPartQueryDTO> listbodyBody = new ArrayList<>();
listbodyBody.add(
    new PluginPartQueryDTO()
        .withPluginName("test_multi_language")
        .withVersion("0.0.11")
        .withPluginAttribution("official")
);
request.withBody(listbodyBody);
try {
    ShowPluginMetricsResponse response = client.showPluginMetrics(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()
```

```
try:
    request = ShowPluginMetricsRequest()
    request.domain_id = "{domain_id}"
    listBodybody = [
        PluginPartQueryDTO(
            plugin_name="test_multi_language",
            version="0.0.11",
            plugin_attribution="official"
        )
    ]
    request.body = listBodybody
    response = client.show_plugin_metrics(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowPluginMetricsRequest{}
    request.DomainId = "{domain_id}"
    var listBodybody = []model.PluginPartQueryDto{
        {
            PluginName: "test_multi_language",
            Version: "0.0.11",
            PluginAttribution: "official",
        },
    }
    request.Body = &listBodybody
    response, err := client.ShowPluginMetrics(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```


More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.7.19 Query Extension Input Configuration

Function

This API is used to query extension input configuration.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v1/{domain_id}/agent-plugin/plugin-input

Table 4-761 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-762 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Table 4-763 Request body parameters

Parameter	Mandatory	Type	Description
[items]	No	Array of PluginPartQueryDTO objects	Definition: Request body for querying the extension input. Constraints: N/A Value range: N/A Default value: N/A

Table 4-764 PluginPartQueryDTO

Parameter	Mandatory	Type	Description
plugin_name	Yes	String	Definition: Extension name. Constraints: N/A Value range: N/A Default value: N/A
display_name	Yes	String	Definition: Display name. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
version	Yes	String	Definition: Version number. Constraints: N/A Value range: N/A Default value: N/A
plugin_attri- bution	Yes	String	Definition: Extension attribute. Constraints: N/A Value range: • custom: custom extension. • official: official extension. Default value: N/A
version_attri- bution	No	String	Definition: Version attribute. Constraints: N/A Value range: - draft: draft version. - formal: formal version. Default value: N/A

Response Parameters

Status code: 200

Table 4-765 Response body parameters

Parameter	Type	Description
[items]	Array of PluginPartQuery-VOListAgentPluginInputVO objects	Parameter description: List of extension input configurations. Constraints: None.

Table 4-766 PluginPartQueryVOListAgentPluginInputVO

Parameter	Type	Description
plugin_name	String	Definition: Extension name. Value range: 1 to 50 characters.
display_name	String	Definition: Displayed extension name. Value range: N/A
data	Array of data objects	Definition: Details of the extension input item. Value range: N/A

Table 4-767 data

Parameter	Type	Description
unique_id	String	Definition: ID of the extension input item. Value range: N/A
name	String	Definition: Name of the extension input item. Value range: N/A
default_value	String	Definition: Default value of the extension input item. Value range: N/A
plugin_name	String	Definition: Extension name. Value range: N/A

Parameter	Type	Description
version	String	Definition: Extension version. Value range: N/A
type	String	Definition: Type of the extension input item. Value range: N/A
workspace_id	String	Definition: Tenant ID. Value range: The value consists of 32 characters, including digits and letters.
validation	ExtensionValidation object	Definition: Validation information of the extension input item. Value range: N/A
layout_content	String	Definition: Style information of the extension input item. Value range: N/A
extend_prop	ExtensionExtendProp object	Definition: Extended information in extension input. Value range: N/A
front_data_prop	String	Definition: Data used for frontend rendering. Value range: N/A
label	String	Definition: Tag. Value range: N/A

Parameter	Type	Description
description	String	Definition: Description. Value range: N/A
required	String	Definition: Mandatory or not. Value range: N/A

Table 4-768 ExtensionValidation

Parameter	Type	Description
required_message	String	Definition: Message displayed when the extension input item is mandatory but is not set. Value range: N/A
regex	String	Definition: Regular expression used to verify the extension input value. Value range: N/A
regex_message	String	Definition: Message displayed when the value of an extension input item does not meet the regular expression requirement. Value range: N/A
max_length	Integer	Definition: Maximum length of an extension input value. Value range: N/A
min_length	Integer	Definition: Minimum length of an extension input value. Value range: N/A

Table 4-769 ExtensionExtendProp

Parameter	Type	Description
api_options	String	Definition: API option. Value range: N/A
api_type	String	Definition: API type. Value range: N/A
show_placeholder	String	Definition: Placeholder. Value range: N/A
options	String	Definition: Option. Value range: N/A
disabled_conditions	String	Definition: Conditions for disabling an extension. Value range: N/A
visible_conditions	String	Definition: Visible condition. Value range: N/A

Status code: 400**Table 4-770** Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A

Parameter	Type	Description
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

```
POST https://{endpoint}/v1/ce8df55870164338a72d7e828a966a2a/agent-plugin/plugin-input

[ {
  "plugin_name" : "official_shell_plugin",
  "display_name" : "Executing the Shell",
  "version" : "0.0.2",
  "plugin_attribution" : "official",
  "version_attribution" : "formal"
} ]
```

Example Responses

Status code: 200

OK

```
[ {
  "plugin_name" : "official_shell_plugin",
  "display_name" : "Executing the Shell",
  "data" : [ {
    "unique_id" : "aac7e571b0d4462ba7962ce1735c4ec3",
    "name" : "OFFICIAL_SHELL_SCRIPT_INPUT",
    "default_value" : "",
    "plugin_name" : "official_shell_plugin",
    "version" : "0.0.2",
    "type" : "shell",
    "workspace_id" : "",
    "layout_content" : null,
    "front_data_prop" : null,
    "label" : "Shell Commands",
    "description" : "The user enters the shell command here.",
    "required" : "true",
    "extend_prop" : {
      "api_options" : null,
      "api_type" : null,
      "options" : null,
      "disabled_conditions" : null,
      "visible_conditions" : null
    },
    "validation" : {
      "required_message" : null,
      "regex" : null,
      "regex_message" : null,
      "max_length" : null,
      "min_length" : null
    }
  }
} ]
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

import java.util.List;
import java.util.ArrayList;

public class ShowPluginInputsSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowPluginInputsRequest request = new ShowPluginInputsRequest();
        request.withDomainId("{domain_id}");
        List<PluginPartQueryDTO> listbodyBody = new ArrayList<>();
        listbodyBody.add(
            new PluginPartQueryDTO()
                .withPluginName("official_shell_plugin")
                .withDisplayName("Executing the Shell")
                .withVersion("0.0.2")
                .withPluginAttribution("official")
                .withVersionAttribution("formal")
        );
        request.withBody(listbodyBody);
        try {
            ShowPluginInputsResponse response = client.showPluginInputs(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
```

```
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowPluginInputsRequest()
        request.domain_id = "{domain_id}"
        listBodybody = [
            PluginPartQueryDTO(
                plugin_name="official_shell_plugin",
                display_name="Executing the Shell",
                version="0.0.2",
                plugin_attribution="official",
                version_attribution="formal"
            )
        ]
        request.body = listBodybody
        response = client.show_plugin_inputs(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
```

```
codeartspipeline.CodeArtsPipelineClientBuilder().
    WithRegion(region.ValueOf("<YOUR REGION>")).
    WithCredential(auth).
    Build())

request := &model.ShowPluginInputsRequest{}
request.DomainId = "{domain_id}"
versionAttributionBody := "formal"
var listBodybody = []model.PluginPartQueryDto{
    {
        PluginName: "official_shell_plugin",
        DisplayName: "Executing the Shell",
        Version: "0.0.2",
        PluginAttribution: "official",
        VersionAttribution: &versionAttributionBody,
    },
}
request.Body = &listBodybody
response, err := client.ShowPluginInputs(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.7.20 Query Extension Output Configuration

Function

This API is used to query extension output configuration.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v1/{domain_id}/agent-plugin/plugin-output

Table 4-771 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-772 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Table 4-773 Request body parameters

Parameter	Mandatory	Type	Description
[items]	No	Array of PluginPartQueryDTO objects	Definition: Request body for querying the extension output. Constraints: N/A Value range: N/A Default value: N/A

Table 4-774 PluginPartQueryDTO

Parameter	Mandatory	Type	Description
plugin_name	Yes	String	Definition: Extension name. Constraints: N/A Value range: N/A Default value: N/A
display_name	Yes	String	Definition: Display name. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
version	Yes	String	Definition: Version number. Constraints: N/A Value range: N/A Default value: N/A
plugin_attri- bution	Yes	String	Definition: Extension attribute. Constraints: N/A Value range: • custom: custom extension. • official: official extension. Default value: N/A
version_attri- bution	No	String	Definition: Version attribute. Constraints: N/A Value range: - draft: draft version. - formal: formal version. Default value: N/A

Response Parameters

Status code: 200

Table 4-775 Response body parameters

Parameter	Type	Description
[items]	Array of PluginVersionPartQueryVOListAgentPluginOutputVO objects	Parameter description: List of extension output configurations. Constraints: None.

Table 4-776 PluginVersionPartQueryVOListAgentPluginOutputVO

Parameter	Type	Description
plugin_name	String	Definition: Extension name. Value range: N/A
display_name	String	Definition: Extension display name. Value range: N/A
version	String	Definition: Extension version number. Value range: N/A
data	Array of data objects	Definition: Extension output details. Value range: N/A

Table 4-777 data

Parameter	Type	Description
basic_instance_id	String	Definition: ID. Value range: N/A
workspace_id	String	Definition: Tenant ID. Value range: N/A
plugin_name	String	Definition: Extension name. Value range: N/A

Parameter	Type	Description
name	String	Definition: Display name. Value range: N/A
version	String	Definition: Extension version number. Value range: N/A
type	String	Definition: Type. Value range: N/A
description	String	Definition: Description. Value range: N/A
source	String	Definition: Source. Value range: N/A
prop	OutputPropVO object	Definition: Extended attributes. Value range: N/A

Table 4-778 OutputPropVO

Parameter	Type	Description
group	String	Definition: Group name. Value range: N/A
default_value	String	Definition: Default value. Value range: N/A

Parameter	Type	Description
display_type	String	Definition: Display type. Value range: N/A

Status code: 400

Table 4-779 Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

```
POST https://{endpoint}/v1/ce8df55870164338a72d7e828a966a2a/agent-plugin/plugin-output

[ {
  "plugin_name" : "official_shell_plugin",
  "display_name" : "",
  "plugin_attribution" : "official",
  "version_attribution" : "formal"
} ]
```

Example Responses

Status code: 200

OK

```
[ {
  "plugin_name" : "official_shell_plugin",
  "display_name" : "",
  "data" : [ ]
} ]
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

import java.util.List;
import java.util.ArrayList;

public class ShowPluginOutputsSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowPluginOutputsRequest request = new ShowPluginOutputsRequest();
        request.withDomainId("{domain_id}");
        List<PluginPartQueryDTO> listbodyBody = new ArrayList<>();
        listbodyBody.add(
            new PluginPartQueryDTO()
                .withPluginName("official_shell_plugin")
                .withDisplayName("")
                .withPluginAttribution("official")
                .withVersionAttribution("formal")
        );
        request.withBody(listbodyBody);
        try {
            ShowPluginOutputsResponse response = client.showPluginOutputs(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
```

```
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowPluginOutputsRequest()
        request.domain_id = "{domain_id}"
        listBodybody = [
            PluginPartQueryDTO(
                plugin_name="official_shell_plugin",
                display_name="",
                plugin_attribution="official",
                version_attribution="formal"
            )
        ]
        request.body = listBodybody
        response = client.show_plugin_outputs(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
```

```
WithCredential(auth).
Build())

request := &model.ShowPluginOutputsRequest{}
request.DomainId = "{domain_id}"
versionAttributionBody:= "formal"
var listBodybody = []model.PluginPartQueryDto{
    {
        PluginName: "official_shell_plugin",
        DisplayName: "",
        PluginAttribution: "official",
        VersionAttribution: &versionAttributionBody,
    },
}
request.Body = &listBodybody
response, err := client.ShowPluginOutputs(request)
if err == nil {
    fmt.Printf("%v\n", response)
} else {
    fmt.Println(err)
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.7.21 Querying All Versions of an Extension

Function

This API is used to query all versions of an extension.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v1/{domain_id}/agent-plugin/query

Table 4-780 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Table 4-781 Query Parameters

Parameter	Mandatory	Type	Description
plugin_name	Yes	String	Definition: Extension name. Constraints: Enter only letters, digits, hyphens (-), and underscores (_). Value range: 1 to 50 characters. Default value: N/A
offset	Yes	String	Definition: Offset where the query starts. This parameter must be used together with limit . Constraints: N/A Value range: The offset value must be no less than 0. Default value: N/A

Parameter	Mandatory	Type	Description
limit	Yes	String	Definition: Number of records of each query. Constraints: N/A Value range: 1–100. Default value: N/A

Request Parameters

Table 4-782 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-783 Response body parameters

Parameter	Type	Description
offset	Integer	Definition: Offset where the query starts. Constraints: N/A Value range: The offset value must be no less than 0. Default value: 0.
limit	Integer	Definition: Number of records of each query. Constraints: N/A Value range: The value is no less than 0. Default value: N/A
total	Integer	Definition: Total number of items. Value range: The value is no less than 0.
data	Array of PluginBasicVO objects	Definition: Extension list. Value range: N/A

Table 4-784 PluginBasicVO

Parameter	Type	Description
plugin_name	String	Definition: Extension name. Value range: 1 to 50 characters.

Parameter	Type	Description
display_name	String	Definition: Extension name. Value range: N/A
db_record_name	String	Definition: Display name of extension record. Value range: N/A
version	String	Definition: Extension version number. Value range: N/A
version_description	String	Definition: Extension version number description. Value range: N/A
description	String	Definition: Extension description. Value range: N/A
version_attribute	String	Definition: Extension version attribute. Value range: - draft : draft version. - formal : formal version.
unique_id	String	Definition: Extension ID. Value range: N/A
op_user	String	Definition: User who last updated the extension. Value range: N/A

Parameter	Type	Description
op_time	String	Definition: Time when the extension was last updated. Value range: N/A
plugin_composition_type	String	Definition: Whether the extension consists of multiple steps. Value range: • multi: multi-step extension. • single: single-step extension.
plugin_attribution	String	Definition: Extension attribute. Value range: • custom: custom extension. • official: official extension. • published: extension published by the publisher.
workspace_id	String	Definition: Tenant ID, that is, domain ID of a user. Value range: The value consists of 32 characters, including only digits and letters.
business_type	String	Definition: Extension service type. Value range: N/A
business_type_display_name	String	Definition: Displayed service type of the extension. Value range: N/A
maintainers	String	Definition: Extension maintainer. Value range: N/A

Parameter	Type	Description
icon_url	String	Definition: Extension icon address. Value range: N/A
refer_count	Integer	Definition: Number of times that the extension is referenced by pipelines. Value range: N/A
usage_count	Integer	Definition: Number of times that the extension is used by pipelines. Value range: N/A
runtime_attribution	String	Definition: Running attribute. Value range: • agent: Pipeline agent is required for running. • agentLess: No pipeline agent is required.
active	Integer	Definition: Whether the extension is activated. Value range: • true: activated. • false: not activated.
version_state	String	Definition: Status of the current extension version. Value range: N/A
publisher_unique_id	String	Definition: Publisher ID. Value range: N/A

Parameter	Type	Description
creator	String	Definition: Creator name. Value range: N/A
create_time	String	Definition: Creation time. Value range: N/A
manifest_version	String	Definition: Extension version identifier. Value range: N/A

Status code: 400

Table 4-785 Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

```
GET https://{endpoint}/v1/ce8df55870164338a72d7e828a966a2a/agent-plugin/query?
plugin_name=fff&offset=0&limit=1
```

Example Responses

Status code: 200

OK

```
{
  "offset" : 0,
  "limit" : 1,
  "total" : 1,
```

```
"data" : [ {
  "plugin_name" : "fff",
  "display_name" : "hhjk",
  "version" : "0.0.1",
  "version_description" : "",
  "description" : "",
  "version_attribution" : "formal",
  "unique_id" : "d4d18039ac4248b68d38aca463a0c35a",
  "op_user" : "devcloud_devcloud_h00485561_01",
  "op_time" : "1699931374000",
  "plugin_composition_type" : "multi",
  "plugin_attribution" : "custom",
  "workspace_id" : "ce8df55870164338a72d7e828a966a2a",
  "business_type" : "Normal",
  "business_type_display_name" : "General",
  "maintainers" : "[\"847a5317086c41798469d0868535943a\"]",
  "icon_url" : "",
  "refer_count" : null,
  "usage_count" : null,
  "runtime_attribution" : "agent",
  "active" : 1
} ]
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class ListPluginVersionSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        ListPluginVersionRequest request = new ListPluginVersionRequest();
        request.withDomainId("{domain_id}");
        try {
            ListPluginVersionResponse response = client.listPluginVersion(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        }
    }
}
```

```
    } catch (RequestTimeoutException e) {
        e.printStackTrace();
    } catch (ServiceResponseException e) {
        e.printStackTrace();
        System.out.println(e.getHttpStatusCode());
        System.out.println(e.getRequestId());
        System.out.println(e.getErrorCode());
        System.out.println(e.getErrorMsg());
    }
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListPLoginVersionRequest()
        request.domain_id = "{domain_id}"
        response = client.list_p_login_version(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")
```

```
auth := basic.NewCredentialsBuilder().
    WithAk(ak).
    WithSk(sk).
    Build()

client := codeartspipeline.NewCodeArtsPipelineClient(
    codeartspipeline.CodeArtsPipelineClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.ListPLuginVersionRequest{}
request.DomainId = "{domain_id}"
response, err := client.ListPLuginVersion(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.7.22 Querying Extension Version Details

Function

This API is used to query extension version details.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v1/{domain_id}/agent-plugin/detail

Table 4-786 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Table 4-787 Query Parameters

Parameter	Mandatory	Type	Description
plugin_name	Yes	String	Definition: Extension name. Constraints: Enter only letters, digits, hyphens (-), and underscores (_). Value range: 1 to 50 characters. Default value: N/A

Parameter	Mandatory	Type	Description
version	No	String	Definition: Extension version number. Constraints: The value must be in the format of <i>x.xx.xx</i> , where <i>x</i> is a number ranging from 0 to 99. <i>xx</i> indicates the number following the dot (.). Each <i>xx</i> can be a one-digit or two-digit number. Value range: N/A Default value: N/A

Request Parameters

Table 4-788 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-789 Response body parameters

Parameter	Type	Description
plugin_name	String	Definition: Extension name. Value range: 1 to 50 characters.
display_name	String	Definition: Displayed extension name. Value range: N/A
op_user	String	Definition: User who last updated the extension. Value range: N/A
op_time	String	Definition: Time when the extension was last updated. Value range: N/A
version	String	Definition: Extension version number. Value range: N/A
unique_id	String	Definition: Extension ID. Value range: The value consists of 32 characters, including digits and letters.
version_description	String	Definition: Extension version description. Value range: The value consists of 32 characters, including digits and letters.
version_attribute	String	Definition: Extension version attribute. Value range: - draft : draft version. - formal : formal version.

Parameter	Type	Description
plugin_composition_type	String	Definition: Whether the extension consists of multiple steps. Value range: • multi: multi-step extension. • single: single-step extension.
plugin_attribution	String	Definition: Extension attribute. Value range: • custom: custom extension. • official: official extension. • published: extension published by the publisher.
input_info	Array of input_info objects	Definition: Details of the extension input item. Value range: N/A
plugin_execution	PluginExecutionVO object	Definition: Execution script information of the extension. Value range: N/A
runtime_attribution	String	Definition: Running attribute. Value range: • agent: Pipeline agent is required for running. • agentLess: No pipeline agent is required.

Table 4-790 input_info

Parameter	Type	Description
unique_id	String	Definition: ID of the extension input item. Value range: N/A

Parameter	Type	Description
name	String	Definition: Name of the extension input item. Value range: N/A
default_value	String	Definition: Default value of the extension input item. Value range: N/A
plugin_name	String	Definition: Extension name. Value range: N/A
version	String	Definition: Extension version number. Value range: N/A
type	String	Definition: Type of the extension input item. Value range: N/A
workspace_id	String	Definition: Tenant ID. Value range: The value consists of 32 characters, including digits and letters.
validation	ExtensionValidation object	Definition: Validation information of the extension input item. Value range: N/A
layout_content	String	Definition: Style information of the extension input item. Value range: N/A

Table 4-791 ExtensionValidation

Parameter	Type	Description
required_message	String	Definition: Message displayed when the extension input item is mandatory but is not set. Value range: N/A
regex	String	Definition: Regular expression used to verify the extension input value. Value range: N/A
regex_message	String	Definition: Message displayed when the value of an extension input item does not meet the regular expression requirement. Value range: N/A
max_length	Integer	Definition: Maximum length of an extension input value. Value range: N/A
min_length	Integer	Definition: Minimum length of an extension input value. Value range: N/A

Table 4-792 PluginExecutionVO

Parameter	Type	Description
type	String	Definition: Script type of the extension. Value range: • Shell: Shell script. • Nodejs: Node.js script. • Java: Java script. • Python: Python script.

Parameter	Type	Description
target	String	Definition: Entry script file for extension execution. Value range: N/A
file_path	String	Definition: OBS path for storing the extension. Value range: N/A

Status code: 400

Table 4-793 Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

```
GET https://{endpoint}/v1/ce8df55870164338a72d7e828a966a2a/agent-plugin/detail?
plugin_name=apie_test&version=0.0.4
```

Example Responses

Status code: 200

OK

```
{
  "plugin_name": "apie_test",
  "display_name": "apie_test222",
  "op_user": "devcloud_devcloud_h00485561_01",
  "op_time": "1699358542000",
  "version": "0.0.4",
  "unique_id": "036d51108a0b48eeb876fb6341ee7615",
  "version_description": "",
  "version_attribution": "formal",
  "plugin_composition_type": "multi",
```

```
"plugin_attribution" : "custom",
"input_info" : [ ],
"plugin_execution" : {
  "logic_id" : "",
  "plugin_name" : "apie_test",
  "version" : "0.0.4",
  "basic_instance_id" : "036d51108a0b48eeb876fb6341ee7615",
  "workspace_id" : "ce8df55870164338a72d7e828a966a2a",
  "execution_type" : "COMPOSITE",
  "steps" : [ {
    "name" : "Executing the Shell",
    "task" : "official_shell_plugin",
    "variables" : {
      "OFFICIAL_SHELL_SCRIPT_INPUT" : "env"
    }
  } ]
},
"runtime_attribution" : "agent"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class ShowPluginVersionSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowPluginVersionRequest request = new ShowPluginVersionRequest();
        request.withDomainId("{domain_id}");
        try {
            ShowPluginVersionResponse response = client.showPluginVersion(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
        }
    }
}
```

```
        System.out.println(e.getStatusCode());
        System.out.println(e.getRequestId());
        System.out.println(e.getErrorCode());
        System.out.println(e.getErrorMsg());
    }
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowPluginVersionRequest()
        request.domain_id = "{domain_id}"
        response = client.show_plugin_version(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
```



```
Build()

client := codeartspipeline.NewCodeArtsPipelineClient(
    codeartspipeline.CodeArtsPipelineClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.ShowPluginVersionRequest{}
request.DomainId = "{domain_id}"
response, err := client.ShowPluginVersion(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.7.23 Querying the Extension Version

Function

This API is used to query the extension version.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v1/{domain_id}/agent-plugin/all-version

Table 4-794 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Table 4-795 Query Parameters

Parameter	Mandatory	Type	Description
plugin_name	Yes	String	Definition: Extension name. Constraints: Enter only letters, digits, hyphens (-), and underscores (_). Value range: 1 to 50 characters. Default value: N/A
offset	Yes	String	Definition: Offset where the query starts. This parameter must be used together with limit . Constraints: N/A Value range: The offset value must be no less than 0. Default value: N/A

Parameter	Mandatory	Type	Description
limit	Yes	String	Definition: Number of records of each query. Constraints: N/A Value range: 1–100. Default value: N/A

Request Parameters

Table 4-796 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-797 Response body parameters

Parameter	Type	Description
offset	Integer	Definition: Offset where the query starts. Value range: The offset value must be no less than 0.
limit	Integer	Definition: Number of records of each query. Value range: The value is no less than 0.
total	Integer	Definition: Total number of queried static rules. Value range: N/A
data	Array of strings	Definition: Result set. Value range: N/A

Status code: 400**Table 4-798** Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

```
GET https://{endpoint}/v1/ce8df55870164338a72d7e828a966a2a/agent-plugin/all-version?
plugin_name=apie_test&offset=0&limit=999
```

Example Responses

Status code: 200

OK

```
{
  "offset" : 0,
  "limit" : 10,
  "total" : 2,
  "data" : [ "0.0.2", "0.0.1" ]
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class ListPluginVersionNumberSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        ListPluginVersionNumberRequest request = new ListPluginVersionNumberRequest();
        request.withDomainId("{domain_id}");
        try {
            ListPluginVersionNumberResponse response = client.listPluginVersionNumber(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListPluginVersionNumberRequest()
        request.domain_id = "{domain_id}"
        response = client.list_plugin_version_number(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())
```

```
request := &model.ListPluginVersionNumberRequest{}
request.DomainId = "{domain_id}"
response, err := client.ListPluginVersionNumber(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.7.24 Deleting a Publisher

Function

This API is used to delete a publisher.

Calling Method

For details, see [Calling APIs](#).

URI

DELETE /v1/{domain_id}/publisher/delete

Table 4-799 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Table 4-800 Query Parameters

Parameter	Mandatory	Type	Description
publisher_unique_id	Yes	String	Definition: Publisher ID. Obtain the ID by calling the API for querying publisher details . uuid.publisher_unique_id indicates the publisher ID. Constraints: N/A Value range: N/A Default value: N/A

Request Parameters

Table 4-801 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-802 Response body parameters

Parameter	Type	Description
-	Boolean	Definition: Whether the calling is successful. Value range: • true: The calling is successful. • false: The calling fails.

Status code: 400

Table 4-803 Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A

Parameter	Type	Description
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

```
DELETE https://{endpoint}/v1/ce8df55870164338a72d7e828a966a2a/publisher/delete?
publisher_unique_id=3082805e42604ce8a10f0cbd7ca55462
```

Example Responses

Status code: 200

OK

```
true
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class DeletePublisherSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        DeletePublisherRequest request = new DeletePublisherRequest();
        request.withDomainId("{domain_id}");
        try {
```

```
        DeletePublisherResponse response = client.deletePublisher(request);
        System.out.println(response.toString());
    } catch (ConnectionException e) {
        e.printStackTrace();
    } catch (RequestTimeoutException e) {
        e.printStackTrace();
    } catch (ServiceResponseException e) {
        e.printStackTrace();
        System.out.println(e.getStatusCode());
        System.out.println(e.getRequestId());
        System.out.println(e.getErrorCode());
        System.out.println(e.getErrorMsg());
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = DeletePublisherRequest()
        request.domain_id = "{domain_id}"
        response = client.delete_publisher(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
```

```
// In this example, AK and SK are stored in environment variables for authentication. Before running this
example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
ak := os.Getenv("CLOUD_SDK_AK")
sk := os.Getenv("CLOUD_SDK_SK")

auth := basic.NewCredentialsBuilder().
    WithAk(ak).
    WithSk(sk).
    Build()

client := codeartspipeline.NewCodeArtsPipelineClient(
    codeartspipeline.CodeArtsPipelineClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.DeletePublisherRequest{}
request.DomainId = "{domain_id}"
response, err := client.DeletePublisher(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.7.25 Querying Publisher Details

Function

This API is used to query publisher details.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v1/{domain_id}/publisher/detail

Table 4-804 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-805 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Table 4-806 Request body parameters

Parameter	Mandatory	Type	Description
[items]	Yes	Array of strings	Definition: Publisher ID list. Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-807 Response body parameters

Parameter	Type	Description
publisher_detail_map	Map<String, PublisherVO >	Definition: Publisher details. Value range: N/A

Table 4-808 PublisherVO

Parameter	Type	Description
publisher_unique_id	String	Definition: Publisher ID. Obtain the ID by calling the API for querying publisher details . Value range: N/A
user_id	String	Definition: User ID. Value range: N/A

Parameter	Type	Description
tenant_id	String	Definition: Tenant ID. Value range: N/A
description	String	Definition: Publisher description. Value range: N/A
logo_url	String	Definition: Publisher icon URL. Value range: N/A
website	String	Definition: Web page URL entered during publisher creation. Value range: N/A
support_url	String	Definition: Help address entered during publisher creation. Value range: N/A
source_url	String	Definition: Source address entered during publisher creation. Value range: N/A
en_name	String	Definition: Publisher name (English). Value range: N/A
name	String	Definition: Publisher name (Chinese). Value range: N/A

Parameter	Type	Description
auth_status	String	Definition: Authorization status. Value range: N/A
is_delete	Integer	Definition: Deleted or not. Value range: • 0: not deleted. • 1: deleted.
last_update_user_name	String	Definition: Name of the user who last updated the information. Value range: N/A
last_update_user_id	String	Definition: ID of the user who last updated the information. Value range: N/A
last_update_time	String	Definition: Last update time. Value range: N/A

Status code: 400**Table 4-809** Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

POST <https://{endpoint}/v1/ce8df55870164338a72d7e828a966a2a/publisher/detail>
["b9fc8fb6d9194536ac66dd74c2212126"]

Example Responses

Status code: 200

OK

[illegible]

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

import java.util.List;
import java.util.ArrayList;

public class ShowPublisherSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");
```

```
ICredential auth = new BasicCredentials()
    .withAk(ak)
    .withSk(sk);

CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
    .withCredential(auth)
    .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
    .build();
ShowPublisherRequest request = new ShowPublisherRequest();
request.withDomainId("{domain_id}");
List<String> listbodyBody = new ArrayList<>();
listbodyBody.add("b9fc8fb6d9194536ac66dd74c2212126");
request.withBody(listbodyBody);
try {
    ShowPublisherResponse response = client.showPublisher(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowPublisherRequest()
        request.domain_id = "{domain_id}"
        listbodybody = [
            "b9fc8fb6d9194536ac66dd74c2212126"
        ]
        request.body = listbodybody
        response = client.show_publisher(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
```

```
print(e.error_code)
print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowPublisherRequest{}
    request.DomainId = "{domain_id}"
    var listBodybody = []string{
        "b9fc8fb6d9194536ac66dd74c2212126",
    }
    request.Body = &listBodybody
    response, err := client.ShowPublisher(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized

Status Code	Description
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.7.26 Creating a Basic Extension

Function

This API is used to create a basic extension.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v3/{domain_id}/extension/info/add

Table 4-810 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-811 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Table 4-812 Request body parameters

Parameter	Mandatory	Type	Description
unique_id	No	String	Definition: Extension UUID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
icon_url	No	String	Definition: Extension icon URL. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
runtime_attri bution	No	String	Definition: Running attribute. Constraints: N/A Value range: • agent: agent-based running. • agentless: agentless running. Default value: N/A
plugin_name	Yes	String	Definition: Unique identifier of the extension. Constraints: N/A Value range: N/A Default value: N/A
display_name	Yes	String	Definition: Displayed extension name. Constraints: N/A Value range: N/A Default value: N/A
business_type	Yes	String	Definition: Extension service type. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
business_type_display_name	Yes	String	Definition: Displayed service type of the extension. Constraints: N/A Value range: N/A Default value: N/A
description	No	String	Definition: Extension description. Constraints: N/A Value range: N/A Default value: N/A
is_private	No	Integer	Definition: Whether the extension is private. Constraints: N/A Value range: N/A Default value: N/A
region	No	String	Definition: Region. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
maintainers	No	String	Definition: Maintainer. Constraints: N/A Value range: N/A Default value: N/A
plugin_composition_type	No	String	Definition: Whether a group consists of multiple steps. Constraints: N/A Value range: • single: single-step extension. • multi: multi-step extension. Default value: N/A

Response Parameters

Status code: 200

Table 4-813 Response body parameters

Parameter	Type	Description
-	String	Definition: Whether the calling is successful. Value range: • true: The calling is successful. • false: The calling fails.

Status code: 400

Table 4-814 Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

```
POST https://{endpoint}/v3/ce8df55870164338a72d7e828a966a2a/extension/info/add
{
  "plugin_name" : "basic_plugin",
  "display_name" : "basic_plugin",
  "business_type" : "Normal",
  "description" : "",
  "maintainers" : "",
  "business_type_display_name" : "General",
  "icon_url" : "",
  "plugin_composition_type" : "single"
}
```

Example Responses

Status code: 200

OK

true

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class CreateBasicPluginSolution {

    public static void main(String[] args) {
```

```
// The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
environment variables and decrypted during use to ensure security.
// In this example, AK and SK are stored in environment variables for authentication. Before running
this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
String ak = System.getenv("CLOUD_SDK_AK");
String sk = System.getenv("CLOUD_SDK_SK");

ICredential auth = new BasicCredentials()
    .withAk(ak)
    .withSk(sk);

CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
    .withCredential(auth)
    .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
    .build();

CreateBasicPluginRequest request = new CreateBasicPluginRequest();
request.withDomainId("{domain_id}");
PluginBasicDTO body = new PluginBasicDTO();
body.withPluginCompositionType("single");
body.withMaintainers("");
body.withDescription("");
body.withBusinessTypeDisplayName("General");
body.withBusinessType("Normal");
body.withDisplayName("basic_plugin");
body.withPluginName("basic_plugin");
body.withIconUrl("");
request.withBody(body);
try {
    CreateBasicPluginResponse response = client.createBasicPlugin(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.getenv("CLOUD_SDK_AK")
    sk = os.getenv("CLOUD_SDK_SK")

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
```

```
.build()

try:
    request = CreateBasicPluginRequest()
    request.domain_id = "{domain_id}"
    request.body = PluginBasicDTO(
        plugin_composition_type="single",
        maintainers="",
        description="",
        business_type_display_name="General",
        business_type="Normal",
        display_name="basic_plugin",
        plugin_name="basic_plugin",
        icon_url=""
    )
    response = client.create_basic_plugin(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.CreateBasicPluginRequest{}
    request.DomainId = "{domain_id}"
    pluginCompositionTypePluginBasicDto := "single"
    maintainersPluginBasicDto := ""
    descriptionPluginBasicDto := ""
    iconUrlPluginBasicDto := ""
    request.Body = &model.PluginBasicDto{
        PluginCompositionType: &pluginCompositionTypePluginBasicDto,
        Maintainers: &maintainersPluginBasicDto,
        Description: &descriptionPluginBasicDto,
        BusinessTypeDisplayName: "General",
        BusinessType: "Normal",
        DisplayName: "basic_plugin",
        PluginName: "basic_plugin",
    }
```

```
        IconUrl: &iconUrlPluginBasicDto,  
    }  
    response, err := client.CreateBasicPlugin(request)  
    if err == nil {  
        fmt.Printf("%v\n", response)  
    } else {  
        fmt.Println(err)  
    }  
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.7.27 Updating a Basic Extension

Function

This API is used to update a basic extension.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v3/{domain_id}/extension/info/update

Table 4-815 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-816 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Table 4-817 Request body parameters

Parameter	Mandatory	Type	Description
unique_id	No	String	Definition: Extension UUID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
icon_url	No	String	Definition: Extension icon URL. Constraints: N/A Value range: N/A Default value: N/A
runtime_attri bution	No	String	Definition: Running attribute. Constraints: N/A Value range: ● agent: agent-based running. ● agentless: agentless running. Default value: N/A
plugin_name	Yes	String	Definition: Unique identifier of the extension. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
display_name	Yes	String	Definition: Displayed extension name. Constraints: N/A Value range: N/A Default value: N/A
business_type	Yes	String	Definition: Extension service type. Constraints: N/A Value range: N/A Default value: N/A
business_type_display_name	Yes	String	Definition: Displayed service type of the extension. Constraints: N/A Value range: N/A Default value: N/A
description	No	String	Definition: Extension description. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
is_private	No	Integer	Definition: Whether the extension is private. Constraints: N/A Value range: N/A Default value: N/A
region	No	String	Definition: Region. Constraints: N/A Value range: N/A Default value: N/A
maintainers	No	String	Definition: Maintainer. Constraints: N/A Value range: N/A Default value: N/A
plugin_composition_type	No	String	Definition: Whether a group consists of multiple steps. Constraints: N/A Value range: • single: single-step extension. • multi: multi-step extension. Default value: N/A

Response Parameters

Status code: 200

Table 4-818 Response body parameters

Parameter	Type	Description
-	String	Definition: Whether the calling is successful. Value range: • true: The calling is successful. • false: The calling fails.

Status code: 400

Table 4-819 Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

```
POST https://{endpoint}/v3/ce8df55870164338a72d7e828a966a2a/extension/info/update
{
  "plugin_name": "basic_plugin",
  "display_name": "basic_plugin",
  "business_type": "Normal",
  "description": "",
  "maintainers": "",
  "business_type_display_name": "General",
  "icon_url": ""
}
```

Example Responses

Status code: 200

OK

true

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class UpdateBasicPluginSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        UpdateBasicPluginRequest request = new UpdateBasicPluginRequest();
        request.withDomainId("{domain_id}");
        PluginBasicDTO body = new PluginBasicDTO();
        body.withMaintainers("");
        body.withDescription("");
        body.withBusinessTypeDisplayName("General");
        body.withBusinessType("Normal");
        body.withDisplayName("basic_plugin");
        body.withPluginName("basic_plugin");
        body.withIconUrl("");
        request.withBody(body);
        try {
            UpdateBasicPluginResponse response = client.updateBasicPlugin(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8
```

```
import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = UpdateBasicPluginRequest()
        request.domain_id = "{domain_id}"
        request.body = PluginBasicDTO(
            maintainers="",
            description="",
            business_type_display_name="General",
            business_type="Normal",
            display_name="basic_plugin",
            plugin_name="basic_plugin",
            icon_url=""
        )
        response = client.update_basic_plugin(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
```

```
codeartspipeline.CodeArtsPipelineClientBuilder().
    WithRegion(region.ValueOf("<YOUR REGION>")).
    WithCredential(auth).
    Build())

request := &model.UpdateBasicPluginRequest{
    request.DomainId = "{domain_id}"
    maintainersPluginBasicDto:= ""
    descriptionPluginBasicDto:= ""
    iconUrlPluginBasicDto:= ""
    request.Body = &model.PluginBasicDto{
        Maintainers: &maintainersPluginBasicDto,
        Description: &descriptionPluginBasicDto,
        BusinessTypeDisplayName: "General",
        BusinessType: "Normal",
        DisplayName: "basic_plugin",
        PluginName: "basic_plugin",
        IconUrl: &iconUrlPluginBasicDto,
    }
    response, err := client.UpdateBasicPlugin(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.7.28 Deleting a Basic Extension

Function

This API is used to delete a basic extension.

Calling Method

For details, see [Calling APIs](#).

URI

DELETE /v3/{domain_id}/extension/info/delete

Table 4-820 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Table 4-821 Query Parameters

Parameter	Mandatory	Type	Description
plugin_name	Yes	String	Definition: Name of the extension to be deleted. Constraints: Enter only letters, digits, hyphens (-), and underscores (_). Value range: 1 to 50 characters. Default value: N/A

Parameter	Mandatory	Type	Description
type	Yes	String	Definition: Deletion type. Constraints: N/A Value range: - all: Delete the entire extension. - single: Delete an extension version. Default value: N/A
version	No	String	Definition: Version of the extension to be deleted. Constraints: N/A Value range: N/A Default value: N/A

Request Parameters

Table 4-822 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-823 Response body parameters

Parameter	Type	Description
-	String	Definition: Whether the calling is successful. Value range: • true: The calling is successful. • false: The calling fails.

Status code: 400

Table 4-824 Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

```
DELETE https://{endpoint}/v3/ce8df55870164338a72d7e828a966a2a/extension/info/delete?
plugin_name=qwer&type=all
```

Example Responses

Status code: 200

OK

true

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class DeleteBasicPluginSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        DeleteBasicPluginRequest request = new DeleteBasicPluginRequest();
        request.withDomainId("{domain_id}");
        try {
            DeleteBasicPluginResponse response = client.deleteBasicPlugin(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.getenv("CLOUD_SDK_AK")
```



```
sk = os.environ["CLOUD_SDK_SK"]

credentials = BasicCredentials(ak, sk)

client = CodeArtsPipelineClient.new_builder() \
    .with_credentials(credentials) \
    .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
    .build()

try:
    request = DeleteBasicPluginRequest()
    request.domain_id = "{domain_id}"
    response = client.delete_basic_plugin(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.DeleteBasicPluginRequest{}
    request.DomainId = "{domain_id}"
    response, err := client.DeleteBasicPlugin(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.7.29 Uploading a Basic Extension

Function

This API is used to upload a basic extension.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v3/{domain_id}/extension/upload

Table 4-825 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Table 4-826 Query Parameters

Parameter	Mandatory	Type	Description
plugin_name	Yes	String	Definition: Extension name. Constraints: N/A Value range: N/A Default value: N/A
business_type	Yes	String	Definition: Service type. Constraints: N/A Value range: N/A Default value: N/A

Request Parameters

Table 4-827 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Table 4-828 FormData parameters

Parameter	Mandatory	Type	Description
upload_file	Yes	File	Definition: Extension file. Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-829 Response body parameters

Parameter	Type	Description
-	String	Definition: Whether the calling is successful. Value range: • true: The calling is successful. • false: The calling fails.

Status code: 400

Table 4-830 Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

```
POST https://{endpoint}/v3/ce8df55870164338a72d7e828a966a2a/extension/upload?
plugin_name=test_basic&business_type=Normal
```

Example Responses

Status code: 200

OK

```
true
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class UploadBasicPluginSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        UploadBasicPluginRequest request = new UploadBasicPluginRequest();
        request.withDomainId("{domain_id}");
        try {
            UploadBasicPluginResponse response = client.uploadBasicPlugin(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

```
}  
}
```

Python

```
# coding: utf-8  
  
import os  
from huaweicloudsdkcore.auth.credentials import BasicCredentials  
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion  
from huaweicloudsdkcore.exceptions import exceptions  
from huaweicloudsdkcodeartspipeline.v2 import *  
  
if __name__ == "__main__":  
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    # variables and decrypted during use to ensure security.  
    # In this example, AK and SK are stored in environment variables for authentication. Before running this  
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak = os.environ["CLOUD_SDK_AK"]  
    sk = os.environ["CLOUD_SDK_SK"]  
  
    credentials = BasicCredentials(ak, sk)  
  
    client = CodeArtsPipelineClient.new_builder() \  
        .with_credentials(credentials) \  
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \  
        .build()  
  
    try:  
        request = UploadBasicPluginRequest()  
        request.domain_id = "{domain_id}"  
        response = client.upload_basic_plugin(request)  
        print(response)  
    except exceptions.ClientRequestException as e:  
        print(e.status_code)  
        print(e.request_id)  
        print(e.error_code)  
        print(e.error_msg)
```

Go

```
package main  
  
import (  
    "fmt"  
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"  
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"  
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"  
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"  
)  
  
func main() {  
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    // variables and decrypted during use to ensure security.  
    // In this example, AK and SK are stored in environment variables for authentication. Before running this  
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak := os.Getenv("CLOUD_SDK_AK")  
    sk := os.Getenv("CLOUD_SDK_SK")  
  
    auth := basic.NewCredentialsBuilder().  
        WithAk(ak).  
        WithSk(sk).  
        Build()  
  
    client := codeartspipeline.NewCodeArtsPipelineClient(  
        codeartspipeline.CodeArtsPipelineClientBuilder().  
            WithRegion(region.ValueOf("<YOUR REGION>")).
```

```
WithCredential(auth).  
Build())  
  
request := &model.UploadBasicPluginRequest{  
    request.DomainId = "{domain_id}"  
    response, err := client.UploadBasicPlugin(request)  
    if err == nil {  
        fmt.Printf("%+v\n", response)  
    } else {  
        fmt.Println(err)  
    }  
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.7.30 Querying the Basic Extension Details

Function

This API is used to query the basic extension details.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v3/{domain_id}/extension/detail

Table 4-831 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Table 4-832 Query Parameters

Parameter	Mandatory	Type	Description
plugin_name	Yes	String	Definition: Extension name. Constraints: N/A Value range: N/A Default value: N/A
version	Yes	String	Definition: Extension version. Constraints: N/A Value range: N/A Default value: N/A

Request Parameters

Table 4-833 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-834 Response body parameters

Parameter	Type	Description
type	String	Definition: Extension type. Value range: N/A
name	String	Definition: Extension name. Value range: N/A
friendly_name	String	Definition: Displayed extension name. Value range: N/A
category	String	Definition: Service type. Value range: N/A

Parameter	Type	Description
description	String	Definition: Extension description. Value range: N/A
version	String	Definition: Extension version. Value range: N/A
version_description	String	Definition: Extension version description. Value range: N/A
inputs	Array of inputs objects	Definition: Input information. Value range: N/A
data_source_bindings	Array of data_source_bindings objects	Definition: Data source information. Value range: N/A
outputs	Array of outputs objects	Definition: Output information. Value range: N/A
execution	execution object	Definition: Extension type. Value range: N/A

Table 4-835 inputs

Parameter	Type	Description
name	String	Definition: Name. Value range: N/A

Parameter	Type	Description
type	String	Definition: Type. Value range: N/A
label	String	Definition: Label. Value range: N/A
description	String	Definition: Description. Value range: N/A
default_value	String	Definition: Default value. Value range: N/A
required	Boolean	Definition: Mandatory or not. Value range: • true: mandatory. • false: optional.
extend_prop	ExtensionExtend-Prop object	Definition: Extended attributes. Value range: N/A
validation	ExtensionValidation object	Definition: Verification details. Value range: N/A

Table 4-836 ExtensionExtendProp

Parameter	Type	Description
api_options	String	Definition: API option. Value range: N/A
api_type	String	Definition: API type. Value range: N/A
show_placeholder	String	Definition: Placeholder. Value range: N/A
options	String	Definition: Option. Value range: N/A
disabled_conditions	String	Definition: Conditions for disabling an extension. Value range: N/A
visible_conditions	String	Definition: Visible condition. Value range: N/A

Table 4-837 ExtensionValidation

Parameter	Type	Description
required_message	String	Definition: Message displayed when the extension input item is mandatory but is not set. Value range: N/A

Parameter	Type	Description
regex	String	Definition: Regular expression used to verify the extension input value. Value range: N/A
regex_message	String	Definition: Message displayed when the value of an extension input item does not meet the regular expression requirement. Value range: N/A
max_length	Integer	Definition: Maximum length of an extension input value. Value range: N/A
min_length	Integer	Definition: Minimum length of an extension input value. Value range: N/A

Table 4-838 data_source_bindings

Parameter	Type	Description
target	String	Definition: Destination address. Value range: N/A
endpointId	String	Definition: Endpoint ID. Value range: N/A
data_source_name	String	Definition: Name of the bound data source. Value range: N/A

Table 4-839 outputs

Parameter	Type	Description
name	String	Definition: Name. Value range: N/A
type	String	Definition: Type. Value range: N/A
description	String	Definition: Description. Value range: N/A
prop	Map<String,String >	Definition: Extended information. Value range: N/A

Table 4-840 execution

Parameter	Type	Description
target	String	Definition: Extension type. Value range: N/A
type	String	Definition: Extension type. Value range: N/A
sha256	String	Definition: SHA-256. Value range: N/A

Status code: 400

Table 4-841 Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

GET https://{endpoint}/v3/ce8df55870164338a72d7e828a966a2a/extension/detail?plugin_name=basic-CTS&version=2.3.5

Example Responses

Status code: 200

OK

```
{
  "type": "Task",
  "name": "basic-CTS",
  "category": "Test",
  "description": "",
  "version": "2.3.5",
  "inputs": [ {
    "name": "SHELL_PLUGIN",
    "type": "input",
    "label": "Single-line Text Box",
    "description": "Sample String",
    "required": true,
    "validation": {
      "required_message": null,
      "regex": null,
      "regex_message": null,
      "max_length": null,
      "min_length": null
    },
    "default_value": "",
    "extend_prop": {
      "api_options": null,
      "api_type": null,
      "options": null,
      "disabled_conditions": null,
      "visible_conditions": null
    }
  } ],
  "outputs": [ {
    "name": "problem",
    "type": "output",
    "description": "Number of recorded problems"
  } ],
  "execution": {
    "type": "scripts/test.sh",
```

```
"target" : "Shell",
"sha256" : "4fa52dab3fb72847e4da5f00295a96fce8892f301d384efe9b776aa1731ba8f0"
},
"friendly_name" : "Basic plug-in - CTS2",
"version_description" : "Running Shell Commands"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class ShowBasicPluginSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowBasicPluginRequest request = new ShowBasicPluginRequest();
        request.withDomainId("{domain_id}");
        try {
            ShowBasicPluginResponse response = client.showBasicPlugin(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8
```



```
import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowBasicPluginRequest()
        request.domain_id = "{domain_id}"
        response = client.show_basic_plugin(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowBasicPluginRequest{}
    request.DomainId = "{domain_id}"
    response, err := client.ShowBasicPlugin(request)
    if err == nil {
```

```
    fmt.Printf("%+v\n", response)
  } else {
    fmt.Println(err)
  }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.8 Endpoint Management

4.8.1 Querying the Extensions

Function

This API is used to query the extensions.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v2/extensions/modules

Table 4-842 Query Parameters

Parameter	Mandatory	Type	Description
project_uuid	No	String	Project UUID.

Parameter	Mandatory	Type	Description
region_name	No	String	Region name.
name	No	String	Name.
productLine	No	String	Product line.
tags	No	Array of strings	Tag.
offset	No	Integer	Page number.
limit	No	Integer	Number of records on each page.
locations	Yes	Array of strings	Endpoint.

Request Parameters

None

Response Parameters

Status code: 200

Table 4-843 Response body parameters

Parameter	Type	Description
error	ErrorInfo object	Error information.
result	Map<String, ExtensionModuleList >	Information about the extension modules.
status	String	Status value.

Table 4-844 ErrorInfo

Parameter	Type	Description
code	String	Definition: Error code. Value range: N/A

Parameter	Type	Description
message	String	Definition: Error message. Value range: N/A

Table 4-845 ExtensionModuleList

Parameter	Type	Description
data	Array of ExtensionModule objects	Module information.
total	Integer	Modules length.

Table 4-846 ExtensionModule

Parameter	Type	Description
base_url	String	Basic URL.
description	String	Description.
id	Integer	id
location	String	Endpoint.
module_id	String	Module ID.
name	String	Name.
properties	Object	Attribute information.
publisher	String	Publisher.
type	String	Type.
version	String	Version.
tags	Array of strings	Tag.
url_relative	String	Extension URL.
properties_list	Array of objects	Attributes of versions.
manifest_version	String	Summary version.

Status code: 400

Table 4-847 Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

```
GET https://{endpoint}/v2/extensions/modules?
locations=devcloud.open.endpoint&project_uuid=d8a80c69b08d471d8c438bda6fc7d74e&region_name=cn-
southwest-275
```

Example Responses

Status code: 200

OK

```
{
  "status" : "success",
  "error" : null,
  "result" : {
    "test" : {
      "data" : [ ],
      "total" : 0
    }
  }
}
```

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.8.2 Querying Extensions V1

Function

This API is used to query APIs of the old version for extensions.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v1/extensions/modules

Table 4-848 Query Parameters

Parameter	Mandatory	Type	Description
projectid	No	String	Project UUID.
module_ids	No	Array of strings	Module ID.
region	No	String	Region name.
name	No	String	Module name (for search).
tags	No	Array of strings	Tag.
offset	No	Integer	Page number.
limit	No	Integer	Number of records on each page.
locations	No	Array of strings	Endpoint.

Request Parameters

None

Response Parameters

Status code: 200

Table 4-849 Response body parameters

Parameter	Type	Description
error	ErrorInfo object	Error information.
result	Map<String,Array< ExtensionModule >>	Module information.
status	String	Status value.

Table 4-850 ErrorInfo

Parameter	Type	Description
code	String	Definition: Error code. Value range: N/A
message	String	Definition: Error message. Value range: N/A

Table 4-851 ExtensionModule

Parameter	Type	Description
base_url	String	Basic URL.
description	String	Description.
id	Integer	id
location	String	Endpoint.
module_id	String	Module ID.
name	String	Name.
properties	Object	Attribute information.
publisher	String	Publisher.
type	String	Type.
version	String	Version.
tags	Array of strings	Tag.

Parameter	Type	Description
url_relative	String	Extension URL.
properties_list	Array of objects	Attributes of versions.
manifest_version	String	Summary version.

Status code: 400

Table 4-852 Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

None

Example Responses

Status code: 200

OK

```
{  
  "status" : "success",  
  "error" : null,  
  "result" : ""  
}
```

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized

Status Code	Description
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.8.3 Querying the Endpoints

Function

This API is used to query the endpoints.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v1/serviceconnection/endpoints

Table 4-853 Query Parameters

Parameter	Mandatory	Type	Description
project_uuid	Yes	String	Project UUID.
region_name	Yes	String	Region name.
module_id	No	String	Module ID.
offset	No	Integer	Page number.
limit	No	Integer	Number of records on each page.

Request Parameters

None

Response Parameters

Status code: 200

Table 4-854 Response body parameters

Parameter	Type	Description
error	ErrorInfo object	Error information.
result	EndpointList object	Endpoint list information.
status	String	Status value.

Table 4-855 ErrorInfo

Parameter	Type	Description
code	String	Definition: Error code. Value range: N/A
message	String	Definition: Error message. Value range: N/A

Table 4-856 EndpointList

Parameter	Type	Description
endpoints	Array of Endpoint objects	Endpoint information.
total	Integer	Quantity.

Table 4-857 Endpoint

Parameter	Type	Description
created_by	EndpointCreator-Info object	Endpoint information.
data	Object	Endpoint data.
module_id	String	Module ID.
name	String	Module name (for search).
project_uuid	String	Project UUID.

Parameter	Type	Description
region_name	String	Region name.
url	String	URL.
uuid	String	Endpoint ID.

Table 4-858 EndpointCreatorInfo

Parameter	Type	Description
user_id	String	User ID.
username	String	Username.

Status code: 400**Table 4-859** Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

None

Example Responses

Status code: 200

OK

```
{
  "status" : "success",
  "error" : null,
  "result" : {
    "endpoints" : [ {
      "uuid" : "c6bbbed0feaea4c6aa24da7fd86b886e8",
      "url" : "https://test.com",
      "name" : "test",
```

```
{
  "project_uuid" : "6cb920b7932948a3ade7ec1d712494eb",
  "region_name" : "regionName",
  "data" : {
    "key1" : "value1",
    "key2" : "value2"
  },
  "created_by" : {
    "username" : "user_01",
    "user_id" : "user_id"
  }
}
```

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.8.4 Creating a Service Endpoint

Function

This API is used to create a service endpoint.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v1/serviceconnection/endpoints

Request Parameters

Table 4-860 Request body parameters

Parameter	Mandatory	Type	Description
url	No	String	Definition: URL. Constraints: N/A Value range: N/A Default value: N/A
name	No	String	Definition: Endpoint name. Constraints: N/A Value range: N/A Default value: N/A
project_uuid	No	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
region_name	No	String	Definition: Region name. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
module_id	No	String	Definition: Module ID. Constraints: N/A Value range: N/A Default value: N/A
authorization	No	EndpointAuthorizationBody object	Definition: Permission information. Constraints: N/A Value range: N/A Default value: N/A
data	No	Object	Definition: Endpoint data structure. Constraints: N/A Value range: N/A Default value: N/A

Table 4-861 EndpointAuthorizationBody

Parameter	Mandatory	Type	Description
parameters	No	Object	Definition: Authentication parameter. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
scheme	No	String	Definition: Authentication mode. Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-862 Response body parameters

Parameter	Type	Description
error	ErrorInfo object	Definition: Error message. Value range: N/A
result	Object	Definition: Error result. Value range: N/A
status	String	Definition: Status value. Value range: N/A

Table 4-863 ErrorInfo

Parameter	Type	Description
code	String	Definition: Error code. Value range: N/A

Parameter	Type	Description
message	String	Definition: Error message. Value range: N/A

Status code: 400

Table 4-864 Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

```
{
  "url" : "https://test.com",
  "name" : "test",
  "project_uuid" : "6cb920b7932948a3ade7ec1d712494eb",
  "region_name" : "regionName",
  "authorization" : {
    "parameters" : {
      "username" : "username",
      "state" : "redirectURI",
      "password" : "password"
    },
    "scheme" : "endpoint-auth-scheme-basic"
  },
  "data" : {
    "key1" : "value1",
    "key2" : "value2"
  },
  "module_id" : "devcloud2018.codesource-authenticate-generic.oauth02"
}
```

Example Responses

Status code: 200

OK

```
{
  "status" : "success",
}
```



```
"error" : null,
"result" : {
  "uuid" : "c6bbbed0feaea4c6aa24da7fd86b886e8",
  "url" : "https://test.com",
  "name" : "test",
  "projectUuid" : "6cb920b7932948a3ade7ec1d712494eb",
  "regionName" : "regionName",
  "authorization" : {
    "parameters" : {
      "username" : "username",
      "state" : "redirectURI",
      "password" : "password"
    },
    "scheme" : "endpoint-auth-scheme-basic"
  },
  "data" : {
    "key1" : "value1",
    "key2" : "value2"
  },
  "moduleId" : "devcloud2018.codesource-authenticate-generic.oauth02",
  "created_by" : {
    "username" : "user_01",
    "user_id" : "user_id"
  }
}
```

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.8.5 Querying Extension Details

Function

This API is used to query extension details.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v1/extensions/modules/{module_id}

Table 4-865 Path Parameters

Parameter	Mandatory	Type	Description
module_id	Yes	String	Module ID.

Request Parameters

None

Response Parameters

Status code: 200

Table 4-866 Response body parameters

Parameter	Type	Description
error	ErrorInfo object	Error Information.
result	String	Detailed module information.
status	String	Status value.

Table 4-867 ErrorInfo

Parameter	Type	Description
code	String	Definition: Error code. Value range: N/A
message	String	Definition: Error message. Value range: N/A

Example Requests

None

Example Responses

Status code: 200

OK

```
{  
  "result" : [ {
```

```
{
  "id" : 0,
  "type" : "InnerEndpoint",
  "location" : "devcloud.open.innerendpoint",
  "properties" : [ ],
  "properties_list" : null,
  "manifest_version" : "1",
  "base_url" : "test",
  "module_id" : "devcloud.cce_interfaces",
  "description" : "description",
  "publisher" : "publisher",
  "name" : "name",
  "version" : "1.0.0",
  "tags" : [ ],
  "url_relative" : "devcloud/cce_interfaces/1.0.0"
},
"status" : "success",
"error" : null
}
```

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.8.6 Obtaining the OAuth2 Authentication URL

Function

This API is used to obtain the OAuth2 authentication URL.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v1/serviceconnection/oauth/authorization_url

Table 4-868 Query Parameters

Parameter	Mandatory	Type	Description
module_id	Yes	String	Definition: Module ID. Constraints: N/A Value range: N/A Default value: N/A
redirect_uri	No	String	Definition: Redirect URI. Constraints: N/A Value range: N/A Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-869 Response body parameters

Parameter	Type	Description
error	ErrorInfo object	Definition: Error message. Value range: N/A
result	Object	Definition: Error result. Value range: N/A

Parameter	Type	Description
status	String	Definition: Status value. Value range: N/A

Table 4-870 ErrorInfo

Parameter	Type	Description
code	String	Definition: Error code. Value range: N/A
message	String	Definition: Error message. Value range: N/A

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.8.7 Updating a Service Endpoint

Function

This API is used to update a service endpoint.

Calling Method

For details, see [Calling APIs](#).

URI

PUT /v1/serviceconnection/endpoints/{uuid}

Table 4-871 Path Parameters

Parameter	Mandatory	Type	Description
uuid	Yes	String	Definition: Endpoint UUID. Constraints: N/A Value range: N/A Default value: N/A

Request Parameters

Table 4-872 Request body parameters

Parameter	Mandatory	Type	Description
url	No	String	Definition: Endpoint URL. Constraints: N/A Value range: N/A Default value: N/A
name	No	String	Definition: Endpoint name. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
authorization	No	EndpointAuthorizationBody object	Definition: Permission information. Constraints: N/A Value range: N/A Default value: N/A
data	No	Object	Definition: Endpoint details. Constraints: N/A Value range: N/A Default value: N/A
region_name	No	String	Definition: Region name. Constraints: N/A Value range: N/A Default value: N/A

Table 4-873 EndpointAuthorizationBody

Parameter	Mandatory	Type	Description
parameters	No	Object	Definition: Authentication parameter. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
scheme	No	String	Definition: Authentication mode. Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-874 Response body parameters

Parameter	Type	Description
error	ErrorInfo object	Definition: Error message. Value range: N/A
result	Object	Definition: Error result. Value range: N/A
status	String	Definition: Status value. Value range: N/A

Table 4-875 ErrorInfo

Parameter	Type	Description
code	String	Definition: Error code. Value range: N/A

Parameter	Type	Description
message	String	Definition: Error message. Value range: N/A

Status code: 201

Created

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK
201	Created
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.8.8 Querying an Endpoint

Function

This API is used to query an endpoint.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v1/serviceconnection/endpoints/{uuid}

Table 4-876 Path Parameters

Parameter	Mandatory	Type	Description
uuid	Yes	String	Definition: Endpoint UUID. Constraints: N/A Value range: N/A Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-877 Response body parameters

Parameter	Type	Description
error	ErrorInfo object	Definition: Error message. Value range: N/A
result	Object	Definition: Error result. Value range: N/A
status	String	Definition: Status value. Value range: N/A

Table 4-878 ErrorInfo

Parameter	Type	Description
code	String	Definition: Error code. Value range: N/A
message	String	Definition: Error message. Value range: N/A

Status code: 201

Created

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK
201	Created
401	Unauthorized
403	Forbidden
404	Not Found

Error CodesSee [Error Codes](#).

4.8.9 Deleting an Endpoint

Function

This API is used to delete an endpoint.

Calling Method

For details, see [Calling APIs](#).

URI

DELETE /v1/serviceconnection/endpoints/{uuid}

Table 4-879 Path Parameters

Parameter	Mandatory	Type	Description
uuid	Yes	String	Definition: Endpoint UUID. Constraints: N/A Value range: N/A Default value: N/A

Table 4-880 Query Parameters

Parameter	Mandatory	Type	Description
project_uuid	No	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-881 Response body parameters

Parameter	Type	Description
error	ErrorInfo object	Definition: Error message. Value range: N/A
result	Object	Definition: Error result. Value range: N/A
status	String	Definition: Status value. Value range: N/A

Table 4-882 ErrorInfo

Parameter	Type	Description
code	String	Definition: Error code. Value range: N/A
message	String	Definition: Error message. Value range: N/A

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.8.10 Querying Endpoint Permissions

Function

This API is used to query endpoint permissions.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v1/endpoint/{endpointUuid}/permission

Table 4-883 Path Parameters

Parameter	Mandatory	Type	Description
endpointUuid	Yes	String	Definition: Endpoint UUID. Constraints: N/A Value range: N/A Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-884 Response body parameters

Parameter	Type	Description
error	ErrorInfo object	Definition: Error message. Value range: N/A
result	Map<String, EndpointPermissionList >	Definition: Information about the endpoint permissions. Value range: N/A
status	String	Definition: Status value. Value range: N/A

Table 4-885 ErrorInfo

Parameter	Type	Description
code	String	Definition: Error code. Value range: N/A
message	String	Definition: Error message. Value range: N/A

Table 4-886 EndpointPermissionList

Parameter	Type	Description
endpoints	Array of EndpointPermission objects	Definition: Endpoint permission list. Value range: N/A

Table 4-887 EndpointPermission

Parameter	Type	Description
id	Integer	Definition: Permission ID. Value range: N/A
endpoint_uuid	String	Definition: Endpoint ID. Value range: N/A
role_name	String	Definition: Permission name. Value range: N/A

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.9 Pipeline Tag Management

4.9.1 Creating a Pipeline Tag

Function

This API is used to create a pipeline tag.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v5/{project_id}/api/pipeline-tag/create

Table 4-888 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-889 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Tag name.
color	Yes	String	Tag color.

Response Parameters

Status code: 200

Table 4-890 Response body parameters

Parameter	Type	Description
success	Boolean	Definition: Whether the operation is successful. Value range: • true: The operation is successful. • false: The operation fails.

Example Requests

```
POST https://{endpoint}}/v5/db8d07265e24426598b3eb03a7818972/api/pipeline-tag/create
{
  "name" : "2323",
  "color" : "#0b81f6"
}
```

Example Responses

Status code: 200

Response body.

```
{
  "success" : true
}
```

Status Codes

Status Code	Description
200	Response body.

Error Codes

See [Error Codes](#).

4.9.2 Querying the Pipeline Tags

Function

This API is used to query the pipeline tags.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v5/{project_id}/api/pipeline-tag/list

Table 4-891 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Table 4-892 Query Parameters

Parameter	Mandatory	Type	Description
proj_id	No	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-893 Response body parameters

Parameter	Type	Description
[items]	Array of PipelineTagResp objects	Definition: Tag response body. Value range: N/A

Table 4-894 PipelineTagResp

Parameter	Type	Description
tag_id	String	Definition: Tag ID. Value range: The value consists of 32 characters, including digits and letters.
name	String	Definition: Tag name. Value range: N/A
color	String	Definition: Tag color. Value range: N/A
project_id	String	Definition: Project ID. Value range: The value consists of 32 characters, including digits and letters.
project_name	String	Definition: Project name. Value range: N/A

Example Requests

```
GET https://{endpoint}/db8d07265e24426598b3eb03a7818972/v5/api/pipeline-tag/list?proj_id=db8d07265e24426598b3eb03a7818972
```

Example Responses

Status code: 200

Response body.

```
[ {  
  "tag_id" : "707b6711d3484578a1d848d889a7fa60",  
  "name" : "1",  
  "color" : "#0b81f6",  
  "project_id" : "db8d07265e24426598b3eb03a7818972",  
  "project_name" : "cjrTest"  
}]
```

Status Codes

Status Code	Description
200	Response body.

Error Codes

See [Error Codes](#).

4.9.3 Updating Tags of a Pipeline

Function

This API is used to update tags of a pipeline.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v5/{project_id}/api/pipeline-tag/update

Table 4-895 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-896 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Tag name.
color	Yes	String	Tag color.
tagId	Yes	String	Tag ID.

Response Parameters

Status code: 200

Table 4-897 Response body parameters

Parameter	Type	Description
success	Boolean	Definition: Whether the operation is successful. Value range: true: The operation is successful. false: The operation fails.

Example Requests

```
POST https://(endpoint)/v5/e2e18230a85d4d6ab0b56cb6d2246c18/api/pipeline-tag/update
```

```
{
  "name" : "12",
  "color" : "#0b81f6",
  "tagId" : "6cb920b7932948a3ade7ec1d712494eb"
}
```

Example Responses

Status code: 200

Response body.

```
{
  "success" : true
}
```

Status Codes

Status Code	Description
200	Response body.

Error Codes

See [Error Codes](#).

4.9.4 Deleting Pipeline Tags

Function

This API is used to delete pipeline tags.

Calling Method

For details, see [Calling APIs](#).

URI

DELETE /v5/{project_id}/api/pipeline-tag/delete

Table 4-898 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Table 4-899 Query Parameters

Parameter	Mandatory	Type	Description
tagId	Yes	String	Definition: ID of the tag to be deleted. Obtain the ID by calling the API for querying pipeline tags . tag_id indicates the tag ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-900 Request body parameters

Parameter	Mandatory	Type	Description
body	Yes	Object	Request body.

Response Parameters

Status code: 200

Table 4-901 Response body parameters

Parameter	Type	Description
success	Boolean	Definition: Whether the operation is successful. Value range: true: The operation is successful. false: The operation fails.

Example Requests

```
DELETE https://(endpoint)/v5/e2e18230a85d4d6ab0b56cb6d2246c18/pipeline-tag/delete?tagId=6cb920b7932948a3ade7ec1d712494eb
```

Example Responses

Status code: 200

Response body.

```
{  
  "success" : true  
}
```

Status Codes

Status Code	Description
200	Response body.

Error Codes

See [Error Codes](#).

4.10 Change Management

4.10.1 Create a Change

Function

Creating a change.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v2/{cloudProjectId}/change-request/create

Table 4-902 Path Parameters

Parameter	Mandatory	Type	Description
cloudProjectId	Yes	String	Project ID.

Request Parameters

Table 4-903 Request body parameters

Parameter	Mandatory	Type	Description
component_id	Yes	String	Microservice ID.
title	Yes	String	Change title.
type	No	String	Change type. The default value is code .
workitem_ids	Yes	Array of strings	Work item ID.
repos	Yes	Array of repos objects	Information of the change code repository.

Table 4-904 repos

Parameter	Mandatory	Type	Description
repo_id	Yes	String	Repo code repository ID.
http_url	Yes	String	HTTP address of the code repository.
git_url	Yes	String	Git address of the code repository.
feature_branch	Yes	String	Feature branch.
main_branch	Yes	String	Default branch.

Parameter	Mandatory	Type	Description
delete_branch_after_release	Yes	Boolean	Whether to delete the feature branch after release.

Response Parameters

Status code: 200

Table 4-905 Response body parameters

Parameter	Type	Description
id	String	Definition: Change ID. Value range: The value consists of 32 characters, including digits and letters.
component_id	String	Definition: Microservice ID. Value range: The value consists of 32 characters, including digits and letters.
status	String	Definition: Status. Value range: N/A
title	String	Definition: Title. Value range: N/A
repos	Array of repos objects	Definition: Code repository of a change. Value range: N/A
workitem_ids	Array of strings	Definition: Work item ID. Value range: N/A

Parameter	Type	Description
release_time	String	Definition: Release time. Value range: N/A
creator_id	String	Definition: Creator ID. Value range: The value consists of 32 characters, including digits and letters.
creator_name	String	Definition: Creator name. Value range: N/A
create_time	String	Definition: Creation time. Value range: N/A
updater_id	String	Definition: Updater ID. Value range: The value consists of 32 characters, including digits and letters.
updater_name	String	Definition: Updater name. Value range: N/A
update_time	String	Definition: Update time. Value range: N/A

Table 4-906 repos

Parameter	Type	Description
repo_id	String	Definition: Repo ID. Value range: N/A
http_url	String	Definition: HTTP address of the code repository. Value range: N/A
git_url	String	Definition: Git address of the code repository. Value range: N/A
feature_branch	String	Definition: Feature branch. Value range: N/A
main_branch	String	Definition: Default branch. Value range: N/A
delete_branch_after_release	Boolean	Definition: Whether to delete the feature branch after release. Value range: • true: Delete the feature branch after release. • false: Do not delete the feature branch after release.

Example Requests

POST https://{endpoint}/v2/2d09f712e9504b61b034cc8f40e475a8/change-request/create

```
{
  "component_id": "f7ced2341b204d2b82c607c6f0de5b4a",
  "title": "aaaaa",
  "type": "code",
  "workitem_ids": [ "2332711" ],
  "repos": [ {
    "http_url": "https://example.com/test00001/maven.git",
    "git_url": "git@example.com:test00001/maven.git",
```

```
"feature_branch" : "aaaaaa",
"main_branch" : "master",
"delete_branch_after_released" : false,
"repo_id" : "804934"
} ]
}
```

Example Responses

Status code: 200

ok

```
{
  "id" : "495d94a305d4456f9a8a1efaaf2d34e0",
  "component_id" : "f7ced2341b204d2b82c607c6f0de5b4a",
  "status" : "developing",
  "title" : "aaaa",
  "repos" : [ {
    "repo_id" : "804934",
    "http_url" : "https://example.com/test00001/maven.git",
    "git_url" : "git@example.com/test00001/maven.git",
    "feature_branch" : "aaa",
    "main_branch" : "master",
    "delete_branch_after_released" : false
  } ],
  "workitem_ids" : [ "2332711" ],
  "release_time" : null,
  "creator_id" : "05d8ca972f114765a8984795a8aa4d41",
  "creator_name" : "p_test5",
  "create_time" : "1719217063",
  "updater_id" : "05d8ca972f114765a8984795a8aa4d41",
  "updater_name" : "p_test5",
  "update_time" : "1719217063"
}
```

Status Codes

Status Code	Description
200	ok

Error Codes

See [Error Codes](#).

4.10.2 Querying the Change Details

Function

This API is used to query the change details.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v2/{cloudProjectId}/change-request/{changeRequestId}/query

Table 4-907 Path Parameters

Parameter	Mandatory	Type	Description
changeRequestId	Yes	String	Change ID.
cloudProjectId	Yes	String	Project ID.

Request Parameters

None

Response Parameters

Status code: 200

Table 4-908 Response body parameters

Parameter	Type	Description
id	String	Definition: Change ID. Value range: The value consists of 32 characters, including digits and letters.
component_id	String	Definition: Microservice ID. Value range: The value consists of 32 characters, including digits and letters.
status	String	Definition: Status. Value range: N/A
title	String	Definition: Title. Value range: N/A

Parameter	Type	Description
repos	Array of repos objects	Definition: Code repository of a change. Value range: N/A
workitem_ids	Array of strings	Definition: Work item ID. Value range: N/A
release_time	String	Definition: Release time. Value range: N/A
creator_id	String	Definition: Creator ID. Value range: The value consists of 32 characters, including digits and letters.
creator_name	String	Definition: Creator name. Value range: N/A
create_time	String	Definition: Creation time. Value range: N/A
updater_id	String	Definition: Updater ID. Value range: The value consists of 32 characters, including digits and letters.
updater_name	String	Definition: Updater name. Value range: N/A

Parameter	Type	Description
update_time	String	Definition: Update time. Value range: N/A

Table 4-909 repos

Parameter	Type	Description
repo_id	String	Definition: Repo ID. Value range: N/A
http_url	String	Definition: HTTP address of the code repository. Value range: N/A
git_url	String	Definition: Git address of the code repository. Value range: N/A
feature_branch	String	Definition: Feature branch. Value range: N/A
main_branch	String	Definition: Default branch. Value range: N/A
delete_branch_after_released	Boolean	Definition: Whether to delete the feature branch after release. Value range: • true: Delete the feature branch after release. • false: Do not delete the feature branch after release.

Example Requests

```
GET https://{endpoint}/v2/2d09f712e9504b61b034cc8f40e475a8/change-request/  
db893fc0add34286b07e311e8e28f8b0/query
```

Example Responses

Status code: 200

ok

```
{  
  "id" : "495d94a305d4456f9a8a1efaaf2d34e0",  
  "component_id" : "f7ced2341b204d2b82c607c6f0de5b4a",  
  "status" : "developing",  
  "title" : "aaaa",  
  "repos" : [ {  
    "repo_id" : "804934",  
    "http_url" : "https://example.com/test00001/maven.git",  
    "git_url" : "git@example.com/test00001/maven.git",  
    "feature_branch" : "aaa",  
    "main_branch" : "master",  
    "delete_branch_after_released" : false  
  } ],  
  "workitem_ids" : [ "2332711" ],  
  "release_time" : null,  
  "creator_id" : "05d8ca972f114765a8984795a8aa4d41",  
  "creator_name" : "p_test5",  
  "create_time" : "1719217063",  
  "updater_id" : "05d8ca972f114765a8984795a8aa4d41",  
  "updater_name" : "p_test5",  
  "update_time" : "1719217063"  
}
```

Status Codes

Status Code	Description
200	ok

Error Codes

See [Error Codes](#).

4.10.3 Modifying the Change Status

Function

This API is used to modify the change status.

Calling Method

For details, see [Calling APIs](#).

URI

PUT /v2/{cloudProjectId}/change-request/{changeRequestId}/status/update

Table 4-910 Path Parameters

Parameter	Mandatory	Type	Description
cloudProjectId	Yes	String	Project ID.
changeRequestId	Yes	String	Change ID.

Table 4-911 Query Parameters

Parameter	Mandatory	Type	Description
status	Yes	String	Change status. The value can be developing , to_be_released , releasing , released , or revoked .

Request Parameters

None

Response Parameters

Status code: 200

Table 4-912 Response body parameters

Parameter	Type	Description
id	String	Definition: Change ID. Value range: The value consists of 32 characters, including digits and letters.
component_id	String	Definition: Microservice ID. Value range: The value consists of 32 characters, including digits and letters.
status	String	Definition: Status. Value range: N/A

Parameter	Type	Description
title	String	Definition: Title. Value range: N/A
repos	Array of repos objects	Definition: Code repository of a change. Value range: N/A
workitem_ids	Array of strings	Definition: Work item ID. Value range: N/A
release_time	String	Definition: Release time. Value range: N/A
creator_id	String	Definition: Creator ID. Value range: The value consists of 32 characters, including digits and letters.
creator_name	String	Definition: Creator name. Value range: N/A
create_time	String	Definition: Creation time. Value range: N/A
updater_id	String	Definition: Updater ID. Value range: The value consists of 32 characters, including digits and letters.

Parameter	Type	Description
updater_name	String	Definition: Updater name. Value range: N/A
update_time	String	Definition: Update time. Value range: N/A

Table 4-913 repos

Parameter	Type	Description
repo_id	String	Definition: Repo ID. Value range: N/A
http_url	String	Definition: HTTP address of the code repository. Value range: N/A
git_url	String	Definition: Git address of the code repository. Value range: N/A
feature_branch	String	Definition: Feature branch. Value range: N/A
main_branch	String	Definition: Default branch. Value range: N/A

Parameter	Type	Description
delete_branch_after_released	Boolean	Definition: Whether to delete the feature branch after release. Value range: • true: Delete the feature branch after release. • false: Do not delete the feature branch after release.

Example Requests

```
PUT https://{endpoint}/v2/2d09f712e9504b61b034cc8f40e475a8/change-request/da50ce1a874c4521975b0feda0dedd4c/status/update?status=to_be_released
```

Example Responses

Status code: 200

ok

```
{
  "id": "da50ce1a874c4521975b0feda0dedd4c",
  "component_id": "f7ced2341b204d2b82c607c6f0de5b4a",
  "status": "to_be_released",
  "title": "aaa",
  "repos": [ ],
  "workitem_ids": null,
  "release_time": "1719221365",
  "creator_id": "05d8ca972f114765a8984795a8aa4d41",
  "creator_name": "p_test5",
  "create_time": "1719217203",
  "updater_id": "05d8ca972f114765a8984795a8aa4d41",
  "updater_name": "p_test5",
  "update_time": "1719221365"
}
```

Status Codes

Status Code	Description
200	ok

Error Codes

See [Error Codes](#).

4.10.4 Modifying the Code Repository of a Change

Function

This API is used to modify the code repository of a change.

Calling Method

For details, see [Calling APIs](#).

URI

PUT /v2/{cloudProjectId}/change-request/{changeRequestId}/repos/update

Table 4-914 Path Parameters

Parameter	Mandatory	Type	Description
cloudProjectId	Yes	String	Project ID.
changeRequestId	Yes	String	Change ID.

Request Parameters

Table 4-915 Request body parameters

Parameter	Mandatory	Type	Description
repos	Yes	Array of repos objects	Repo information.

Table 4-916 repos

Parameter	Mandatory	Type	Description
repo_id	Yes	String	Repo code repository ID.
http_url	Yes	String	HTTP address of the code repository.
git_url	Yes	String	Git address of the code repository.
feature_branch	Yes	String	Feature branch.
main_branch	Yes	String	Default branch.

Parameter	Mandatory	Type	Description
delete_branch_after_released	Yes	Boolean	Whether to delete the feature branch after release.

Response Parameters

Status code: 200

Table 4-917 Response body parameters

Parameter	Type	Description
-	String	Whether the request is successful.

Example Requests

PUT https://{endpoint}/v2/2d09f712e9504b61b034cc8f40e475a8/change-request/095ff1ca27f743a493349103a6070414/repos/update

```
[ {  
  "http_url" : "https://example.com/test00001/maven.git",  
  "git_url" : "git@example.com:test00001/maven.git",  
  "feature_branch" : "aa",  
  "main_branch" : "master",  
  "delete_branch_after_released" : false,  
  "repo_id" : "804934"  
} ]
```

Example Responses

Status code: 200

ok

true

Status Codes

Status Code	Description
200	ok

Error Codes

See [Error Codes](#).

4.10.5 Querying the Change List

Function

This API is used to query the change list.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v2/{cloudProjectId}/change-requests/search

Table 4-918 Path Parameters

Parameter	Mandatory	Type	Description
cloudProjectId	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-919 Request body parameters

Parameter	Mandatory	Type	Description
statuses	No	Array of strings	Definition: Change status. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
creator_ids	No	String	Definition: Creator ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
title	No	String	Definition: Change name. Constraints: N/A Value range: N/A Default value: N/A
component_id	Yes	String	Definition: Pipeline microservice ID. Obtain the ID by calling the API for querying microservices . data.id indicates the microservice ID. Constraints: N/A Value range: The value consists of 32 characters, including only digits and letters. Default value: N/A

Parameter	Mandatory	Type	Description
offset	Yes	Integer	Definition: Offset where the query starts. Constraints: N/A Value range: The offset value must be no less than 0. Default value: N/A
limit	Yes	Integer	Definition: Number of records of each query. Constraints: N/A Value range: The value is no less than 0. Default value: N/A

Response Parameters

Status code: 200

Table 4-920 Response body parameters

Parameter	Type	Description
total	Integer	Definition: Total number of change records. Value range: N/A
data	Array of ChangeRequestVO objects	Definition: Change history details. Value range: N/A

Table 4-921 ChangeRequestVO

Parameter	Type	Description
id	String	Definition: Change ID. Value range: The value consists of 32 characters, including digits and letters.
component_id	String	Definition: Microservice ID. Value range: The value consists of 32 characters, including digits and letters.
status	String	Definition: Status. Value range: N/A
title	String	Definition: Title. Value range: N/A
repos	Array of repos objects	Definition: Code repository of a change. Value range: N/A
workitem_ids	Array of strings	Definition: Work item ID. Value range: N/A
release_time	String	Definition: Release time. Value range: N/A
creator_id	String	Definition: Creator ID. Value range: The value consists of 32 characters, including digits and letters.

Parameter	Type	Description
creator_name	String	Definition: Creator name. Value range: N/A
create_time	String	Definition: Creation time. Value range: N/A
updater_id	String	Definition: Updater ID. Value range: The value consists of 32 characters, including digits and letters.
updater_name	String	Definition: Updater name. Value range: N/A
update_time	String	Definition: Update time. Value range: N/A

Table 4-922 repos

Parameter	Type	Description
repo_id	String	Definition: Repo ID. Value range: N/A
http_url	String	Definition: HTTP address of the code repository. Value range: N/A

Parameter	Type	Description
git_url	String	Definition: Git address of the code repository. Value range: N/A
feature_branch	String	Definition: Feature branch. Value range: N/A
main_branch	String	Definition: Default branch. Value range: N/A
delete_branch_after_released	Boolean	Definition: Whether to delete the feature branch after release. Value range: • true: Delete the feature branch after release. • false: Do not delete the feature branch after release.

Example Requests

```
POST https://{endpoint}/v2/2d09f712e9504b61b034cc8f40e475a8/change-requests/search
{
  "statuses": [ "developing", "releasing", "to_be_released" ],
  "creator_ids": null,
  "title": "",
  "component_id": "f7ced2341b204d2b82c607c6f0de5b4a",
  "offset": 0,
  "limit": 10
}
```

Example Responses

Status code: 200

ok

```
{
  "total": 1,
  "data": [ {
    "id": "adebc0cd4e9f44dfb92a6f5ad5106c2b",
    "component_id": "f7ced2341b204d2b82c607c6f0de5b4a",
    "status": "developing",
    "title": "11",
    "repos": [ {
      "repo_id": "804934",
```

```
{
  "http_url" : "https://example.com/test00001/maven.git",
  "git_url" : "git@example.com:test00001/maven.git",
  "feature_branch" : "aaa",
  "main_branch" : "master",
  "delete_branch_after_released" : false
},
{
  "workitem_ids" : null,
  "release_time" : null,
  "creator_id" : "05d8ca972f114765a8984795a8aa4d41",
  "creator_name" : "test5",
  "create_time" : "1719231005",
  "updater_id" : "05d8ca972f114765a8984795a8aa4d41",
  "updater_name" : "test5",
  "update_time" : "1719231005"
}
}
```

Status Codes

Status Code	Description
200	ok

Error Codes

See [Error Codes](#).

4.10.6 Querying Changes in a Pipeline

Function

This API is used to query changes in a pipeline.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v2/{cloudProjectId}/pipeline/change-requests/search

Table 4-923 Path Parameters

Parameter	Mandatory	Type	Description
cloudProjectId	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-924 Request body parameters

Parameter	Mandatory	Type	Description
component_id	Yes	String	Definition: Microservice ID. Obtain the ID by calling the API for querying microservices . data.id indicates the microservice ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Parameter	Mandatory	Type	Description
limit	Yes	Integer	Definition: Number of records of each query. Constraints: N/A Value range: The value is no less than 0. Default value: N/A
offset	Yes	Integer	Definition: Offset where the query starts. Constraints: N/A Value range: The offset value must be no less than 0. Default value: N/A
statuses	Yes	Array of strings	Definition: Change status. Constraints: N/A Value range: N/A Default value: N/A
title	No	String	Definition: Change name. Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-925 Response body parameters

Parameter	Type	Description
total	Integer	Definition: Total number of change records. Value range: N/A
data	Array of ChangeRequestVO objects	Definition: Change history details. Value range: N/A

Table 4-926 ChangeRequestVO

Parameter	Type	Description
id	String	Definition: Change ID. Value range: The value consists of 32 characters, including digits and letters.
component_id	String	Definition: Microservice ID. Value range: The value consists of 32 characters, including digits and letters.
status	String	Definition: Status. Value range: N/A
title	String	Definition: Title. Value range: N/A
repos	Array of repos objects	Definition: Code repository of a change. Value range: N/A

Parameter	Type	Description
workitem_ids	Array of strings	Definition: Work item ID. Value range: N/A
release_time	String	Definition: Release time. Value range: N/A
creator_id	String	Definition: Creator ID. Value range: The value consists of 32 characters, including digits and letters.
creator_name	String	Definition: Creator name. Value range: N/A
create_time	String	Definition: Creation time. Value range: N/A
updater_id	String	Definition: Updater ID. Value range: The value consists of 32 characters, including digits and letters.
updater_name	String	Definition: Updater name. Value range: N/A
update_time	String	Definition: Update time. Value range: N/A

Table 4-927 repos

Parameter	Type	Description
repo_id	String	Definition: Repo ID. Value range: N/A
http_url	String	Definition: HTTP address of the code repository. Value range: N/A
git_url	String	Definition: Git address of the code repository. Value range: N/A
feature_branch	String	Definition: Feature branch. Value range: N/A
main_branch	String	Definition: Default branch. Value range: N/A
delete_branch_after_released	Boolean	Definition: Whether to delete the feature branch after release. Value range: • true: Delete the feature branch after release. • false: Do not delete the feature branch after release.

Example Requests

POST https://{endpoint}/v2/2d09f712e9504b61b034cc8f40e475a8/pipeline/change-requests/search

```
{
  "component_id" : "f7ced2341b204d2b82c607c6f0de5b4a",
  "limit" : 10,
  "offset" : 0,
  "statuses" : [ "releasing", "to_be_released" ],
  "title" : ""
}
```

Example Responses

Status code: 200

OK

```
{
  "total": 1,
  "data": [ {
    "id": "adebc0cd4e9f44dfb92a6f5ad5106c2b",
    "component_id": "f7ced2341b204d2b82c607c6f0de5b4a",
    "status": "developing",
    "title": "11",
    "repos": [ {
      "repo_id": "804934",
      "http_url": "https://example.com/test00001/maven.git",
      "git_url": "git@example.com:test00001/maven.git",
      "feature_branch": "aaa",
      "main_branch": "master",
      "delete_branch_after_released": false
    } ],
    "workitem_ids": null,
    "release_time": null,
    "creator_id": "05d8ca972f114765a8984795a8aa4d41",
    "creator_name": "test5",
    "create_time": "1719231005",
    "updater_id": "05d8ca972f114765a8984795a8aa4d41",
    "updater_name": "test5",
    "update_time": "1719231005"
  } ]
}
```

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.10.7 Querying Changes Being Released

Function

This API is used to query changes being released.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v2/{cloudProjectId}/change-request/releasing/query

Table 4-928 Path Parameters

Parameter	Mandatory	Type	Description
cloudProjectId	Yes	String	Project ID.

Table 4-929 Query Parameters

Parameter	Mandatory	Type	Description
pipeline_id	Yes	String	Pipeline ID.
component_id	Yes	String	Microservice ID.

Request Parameters

None

Response Parameters

Status code: 200

Table 4-930 Response body parameters

Parameter	Type	Description
[items]	Array of ChangeRequestVO objects	Change list.

Table 4-931 ChangeRequestVO

Parameter	Type	Description
id	String	Definition: Change ID. Value range: The value consists of 32 characters, including digits and letters.
component_id	String	Definition: Microservice ID. Value range: The value consists of 32 characters, including digits and letters.

Parameter	Type	Description
status	String	Definition: Status. Value range: N/A
title	String	Definition: Title. Value range: N/A
repos	Array of repos objects	Definition: Code repository of a change. Value range: N/A
workitem_ids	Array of strings	Definition: Work item ID. Value range: N/A
release_time	String	Definition: Release time. Value range: N/A
creator_id	String	Definition: Creator ID. Value range: The value consists of 32 characters, including digits and letters.
creator_name	String	Definition: Creator name. Value range: N/A
create_time	String	Definition: Creation time. Value range: N/A

Parameter	Type	Description
updater_id	String	Definition: Updater ID. Value range: The value consists of 32 characters, including digits and letters.
updater_name	String	Definition: Updater name. Value range: N/A
update_time	String	Definition: Update time. Value range: N/A

Table 4-932 repos

Parameter	Type	Description
repo_id	String	Definition: Repo ID. Value range: N/A
http_url	String	Definition: HTTP address of the code repository. Value range: N/A
git_url	String	Definition: Git address of the code repository. Value range: N/A
feature_branch	String	Definition: Feature branch. Value range: N/A

Parameter	Type	Description
main_branch	String	Definition: Default branch. Value range: N/A
delete_branch_after_released	Boolean	Definition: Whether to delete the feature branch after release. Value range: • true: Delete the feature branch after release. • false: Do not delete the feature branch after release.

Example Requests

```
GET https://{endpoint}/v2/2d09f712e9504b61b034cc8f40e475a8/change-request/releasing/query?
pipeline_id=11f4460be6dd4f51970f624a5a8d676a&component_id=f7ced2341b204d2b82c607c6f0de5b4a
```

Example Responses

Status code: 200

Changes.

```
[ {
  "id" : "adebc0cd4e9f44dfb92a6f5ad5106c2b",
  "component_id" : "f7ced2341b204d2b82c607c6f0de5b4a",
  "status" : "developing",
  "title" : "11",
  "repos" : [ {
    "repo_id" : "804934",
    "http_url" : "https://example.com/test00001/maven.git",
    "git_url" : "git@example.com:test00001/maven.git",
    "feature_branch" : "aaa",
    "main_branch" : "master",
    "delete_branch_after_released" : false
  } ],
  "workitem_ids" : null,
  "release_time" : null,
  "creator_id" : "05d8ca972f114765a8984795a8aa4d41",
  "creator_name" : "test5",
  "create_time" : "1719231005",
  "updater_id" : "05d8ca972f114765a8984795a8aa4d41",
  "updater_name" : "test5",
  "update_time" : "1719231005"
} ]
```

Status Codes

Status Code	Description
200	Changes.

Error Codes

See [Error Codes](#).

4.10.8 Querying the Change Operation History

Function

This API is used to query the change operation history.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v2/{cloudProjectId}/change-request/{changeRequestId}/oplog/query

Table 4-933 Path Parameters

Parameter	Mandatory	Type	Description
cloudProjectId	Yes	String	Project ID.
changeRequestId	Yes	String	Change ID.

Table 4-934 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition: Offset where the query starts. Constraints: N/A Value range: The offset value must be no less than 0. Default value: 0.

Parameter	Mandatory	Type	Description
limit	No	Integer	Page size.

Request Parameters

None

Response Parameters

Status code: 200

Table 4-935 Response body parameters

Parameter	Type	Description
total	Integer	Total number of records.
data	Array of ChangeRequestOplogVO objects	Operation history.

Table 4-936 ChangeRequestOplogVO

Parameter	Type	Description
operator_id	String	Operator ID.
operator_name	String	Operator name.
operate	String	Operation.
message	String	Operation information.
operate_time	String	Operation time.

Example Requests

```
GET https://{endpoint}/v2/2d09f712e9504b61b034cc8f40e475a8/change-request/21c4adfc64194746ae38d595df3edd73/oplog/query?offset=0&limit=10
```

Example Responses

Status code: 200

ok

```
{
  "total" : 4,
  "data" : [ {
    "operator_id" : "05d8ca972f114765a8984795a8aa4d41",
    "operator_name" : "north-5",
```

```
"operate" : "Update status",
"message" : "Change the status from [Releasing] to [Released]",
"operate_time" : "1718702374"
}, {
  "operator_id" : "05d8ca972f114765a8984795a8aa4d41",
  "operator_name" : "north-5",
  "operate" : "Update status",
  "message" : "Change the status from [To be released] to [Releasing]",
  "operate_time" : "1718701675"
}, {
  "operator_id" : "05d8ca972f114765a8984795a8aa4d41",
  "operator_name" : "north-5",
  "operate" : "Update status",
  "message" : "Change the status from [Developing] to [To be released]",
  "operate_time" : "1718701669"
}, {
  "operator_id" : "05d8ca972f114765a8984795a8aa4d41",
  "operator_name" : "north-5",
  "operate" : "Create a change",
  "message" : "Create a change",
  "operate_time" : "1718701665"
}]
}
```

Status Codes

Status Code	Description
200	ok

Error Codes

See [Error Codes](#).

4.10.9 Querying Change Creator Information in a Project

Function

This API is used to query change creator information in a project.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v2/{cloudProjectId}/change-request/creator/list/search

Table 4-937 Path Parameters

Parameter	Mandatory	Type	Description
cloudProjectId	Yes	String	Project ID.

Table 4-938 Query Parameters

Parameter	Mandatory	Type	Description
component_id	Yes	String	Microservice ID.
name	No	String	Creator name.

Request Parameters

None

Response Parameters

Status code: 200

Table 4-939 Response body parameters

Parameter	Type	Description
[items]	Array of CreatorInfoVO objects	Creator information.

Table 4-940 CreatorInfoVO

Parameter	Type	Description
creator_id	String	Creator ID.
creator_name	String	Creator name.

Example Requests

```
GET https://{endpoint}/v2/2d09f712e9504b61b034cc8f40e475a8/change-request/creator/list/search?
component_id=f7ced2341b204d2b82c607c6f0de5b4a&name=
```

Example Responses

Status code: 200

Creator information.

```
[ {
  "creator_id" : "05d8ca972f114765a8984795a8aa4d41",
  "creator_name" : "test5"
}]
```

Status Codes

Status Code	Description
200	Creator information.

Error Codes

See [Error Codes](#).

4.10.10 Querying Work Items Associated with a Change

Function

This API is used to query work items associated with a change.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v2/{cloudProjectId}/change-request/{changeRequestId}/workitems/query

Table 4-941 Path Parameters

Parameter	Mandatory	Type	Description
cloudProjectId	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Parameter	Mandatory	Type	Description
changeReques tId	Yes	String	Definition: Change ID of the change-triggered pipeline. Obtain the ID by calling the API for querying changes . data.id indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-942 Response body parameters

Parameter	Type	Description
[items]	Array of WorkItemVO objects	Definition: Work items. Value range: N/A

Table 4-943 WorkItemVO

Parameter	Type	Description
work_item_id	String	Definition: Work item ID. Value range: N/A

Parameter	Type	Description
status	String	Definition: Work item status. Value range: N/A
title	String	Definition: Work item title. Value range: N/A
type	String	Definition: Work item status. Value range: N/A

Example Requests

```
GET https://{endpoint}/v2/2d09f712e9504b61b034cc8f40e475a8/change-request/  
adebc0cd4e9f44dfb92a6f5ad5106c2b/workitems/query
```

Example Responses

Status code: 200

OK

```
[ {  
  "work_item_id" : "2332711",  
  "status" : "New",  
  "title" : "asdsa",  
  "type" : "Story"  
}]
```

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.10.11 Updating Work Items Associated with a Change

Function

This API is used to update work items associated with a change.

Calling Method

For details, see [Calling APIs](#).

URI

PUT /v2/{cloudProjectId}/change-request/{changeRequestId}/workitem/update

Table 4-944 Path Parameters

Parameter	Mandatory	Type	Description
cloudProjectId	Yes	String	Project ID.
changeRequestId	Yes	String	Change ID.

Request Parameters

Table 4-945 Request body parameters

Parameter	Mandatory	Type	Description
work_item_ids	Yes	Array of strings	Work item ID.

Response Parameters

Status code: 200

Table 4-946 Response body parameters

Parameter	Type	Description
-	String	Whether the modification is successful.

Example Requests

```
PUT https://{endpoint}/v2/2d09f712e9504b61b034cc8f40e475a8/change-request/adebc0cd4e9f44dfb92a6f5ad5106c2b/workitem/update
{
```

```
"work_item_ids" : [ "2332711" ]  
}
```

Example Responses

Status code: 200

ok

```
true
```

Status Codes

Status Code	Description
200	ok

Error Codes

See [Error Codes](#).

4.11 Microservice Management

4.11.1 Querying Whether a Microservice Is Favorited

Function

This API is used to query whether a microservice is favorited.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v2/{cloudProjectId}/component/{componentId}/follow/query

Table 4-947 Path Parameters

Parameter	Mandatory	Type	Description
cloudProjectId	Yes	String	Project ID.
componentId	Yes	String	Microservice ID.

Request Parameters

None

Response Parameters

Status code: 200

Table 4-948 Response body parameters

Parameter	Type	Description
-	String	Whether to favorite a microservice.

Example Requests

```
GET https://{endpoint}/v2/2d09f712e9504b61b034cc8f40e475a8/component/  
f7ced2341b204d2b82c607c6f0de5b4a/follow/query
```

Example Responses

Status code: 200

ok

true

Status Codes

Status Code	Description
200	ok

Error Codes

See [Error Codes](#).

4.11.2 Unfavoriting a Microservice

Function

This API is used to unfavorite a microservice.

Calling Method

For details, see [Calling APIs](#).

URI

PUT /v2/{cloudProjectId}/component/{componentId}/unfollow

Table 4-949 Path Parameters

Parameter	Mandatory	Type	Description
cloudProjectId	Yes	String	Project ID.
componentId	Yes	String	Microservice ID.

Request Parameters

None

Response Parameters

Status code: 200

Table 4-950 Response body parameters

Parameter	Type	Description
-	String	Microservice ID.

Example Requests

```
GET https://{endpoint}/v2/2d09f712e9504b61b034cc8f40e475a8/component/  
f7ced2341b204d2b82c607c6f0de5b4a/unfollow
```

Example Responses

Status code: 200

ok

```
f7ced2341b204d2b82c607c6f0de5b4a
```

Status Codes

Status Code	Description
200	ok

Error Codes

See [Error Codes](#).

4.11.3 Favoriting a Microservice

Function

This API is used to favorite a microservice.

Calling Method

For details, see [Calling APIs](#).

URI

PUT /v2/{cloudProjectId}/component/{componentId}/follow

Table 4-951 Path Parameters

Parameter	Mandatory	Type	Description
cloudProjectId	Yes	String	Project ID.
componentId	Yes	String	Microservice ID.

Request Parameters

None

Response Parameters

Status code: 200

Table 4-952 Response body parameters

Parameter	Type	Description
-	String	Whether the request is successful.

Example Requests

```
GET https://{endpoint}/v2/2d09f712e9504b61b034cc8f40e475a8/component/
f7ced2341b204d2b82c607c6f0de5b4a/follow
```

Example Responses

Status code: 200

Microservice ID.

```
f7ced2341b204d2b82c607c6f0de5b4a
```

Status Codes

Status Code	Description
200	Microservice ID.

Error Codes

See [Error Codes](#).

4.11.4 Updating a Microservice

Function

This API is used to update a microservice.

Calling Method

For details, see [Calling APIs](#).

URI

PUT /v2/{cloudProjectId}/component/{componentId}/update

Table 4-953 Path Parameters

Parameter	Mandatory	Type	Description
cloudProjectId	Yes	String	Project ID.
componentId	Yes	String	Microservice ID.

Request Parameters

Table 4-954 Request body parameters

Parameter	Mandatory	Type	Description
desc	Yes	String	Description.

Response Parameters

Status code: 200

Table 4-955 Response body parameters

Parameter	Type	Description
id	String	Definition: Microservice ID. Value range: The value consists of 32 characters, including digits and letters.
name	String	Definition: Microservice name. Value range: N/A
type	String	Definition: Microservice type. Value range: N/A
description	String	Definition: Microservice description. Value range: N/A
status	String	Definition: Microservice status. Value range: N/A
parent_id	String	Definition: Parent ID. Value range: N/A
cloud_project_id	String	Definition: Project ID. Value range: The value consists of 32 characters, including digits and letters.
repos	Array of ComponentRepoVO objects	Definition: Microservice code repository. Value range: N/A

Parameter	Type	Description
is_followed	Boolean	Definition: Whether the component is added to favorites. Value range: • true: The component has been added to favorites. • false: The component is not added to favorites.
creator_id	String	Definition: Creator ID. Value range: The value consists of 32 characters, including digits and letters.
creator_name	String	Definition: Creator name. Value range: N/A
create_time	String	Definition: Creation time. Value range: N/A
updater_id	String	Definition: Updater ID. Value range: The value consists of 32 characters, including digits and letters.
updater_name	String	Definition: Updater name. Value range: N/A
update_time	String	Definition: Update time. Value range: N/A

Table 4-956 ComponentRepoVO

Parameter	Type	Description
type	String	Definition: Repository type. Value range: N/A
repo_id	String	Definition: Repo ID. Value range: N/A
http_url	String	Definition: HTTP address of the repository. Value range: N/A
git_url	String	Definition: GIT address of the repository. Value range: N/A
branch	String	Definition: Branch. Value range: N/A
language	String	Definition: Language. Value range: N/A
endpoint_id	String	Definition: Endpoint ID. Value range: N/A

Example Requests

```
PUT https://{endpoint}/v2/2d09f712e9504b61b034cc8f40e475a8/component/
f7ced2341b204d2b82c607c6f0de5b4a/update
{
  "desc" : "1122"
}
```

Example Responses

Status code: 200

Response body for updating a microservice.

```
{
  "id" : "f7ced2341b204d2b82c607c6f0de5b4a",
  "name" : "11",
  "type" : "microservice",
  "description" : "1122",
  "status" : "active",
  "parent_id" : null,
  "cloud_project_id" : "2d09f712e9504b61b034cc8f40e475a8",
  "repos" : [ {
    "type" : "codehub",
    "repo_id" : "804934",
    "http_url" : "https://codehub.devcloud.{region}.huaweicloud.com/LmhTest00001/maven.git",
    "git_url" : "git@codehub.devcloud.{region}.huaweicloud.com:LmhTest00001/maven.git",
    "branch" : "master",
    "language" : "python",
    "endpoint_id" : ""
  } ],
  "is_followed" : null,
  "creator_id" : "05d8ca972f114765a8984795a8aa4d41",
  "creator_name" : "p_test_north5",
  "create_time" : "1709260209",
  "updater_id" : "05d8ca972f114765a8984795a8aa4d41",
  "updater_name" : "p_test_north5",
  "update_time" : "1719318901"
}
```

Status Codes

Status Code	Description
200	Response body for updating a microservice.

Error Codes

See [Error Codes](#).

4.11.5 Updating the Microservice Code Repository

Function

This API is used to update the microservice code repository.

Calling Method

For details, see [Calling APIs](#).

URI

PUT /v2/{cloudProjectId}/component/{componentId}/repo/update

Table 4-957 Path Parameters

Parameter	Mandatory	Type	Description
cloudProjectId	Yes	String	Project ID.
componentId	Yes	String	Microservice ID.

Request Parameters

Table 4-958 Request body parameters

Parameter	Mandatory	Type	Description
[items]	Yes	Array of ComponentRepoVO objects	Microservice code repository.

Table 4-959 ComponentRepoVO

Parameter	Mandatory	Type	Description
type	Yes	String	Definition: Repository type. Value range: N/A
repo_id	Yes	String	Definition: Repo ID. Value range: N/A
http_url	Yes	String	Definition: HTTP address of the repository. Value range: N/A
git_url	Yes	String	Definition: GIT address of the repository. Value range: N/A

Parameter	Mandatory	Type	Description
branch	Yes	String	Definition: Branch. Value range: N/A
language	Yes	String	Definition: Language. Value range: N/A
endpoint_id	No	String	Definition: Endpoint ID. Value range: N/A

Response Parameters

Status code: 200

Table 4-960 Response body parameters

Parameter	Type	Description
id	String	Definition: Microservice ID. Value range: The value consists of 32 characters, including digits and letters.
name	String	Definition: Microservice name. Value range: N/A
type	String	Definition: Microservice type. Value range: N/A
description	String	Definition: Microservice description. Value range: N/A

Parameter	Type	Description
status	String	Definition: Microservice status. Value range: N/A
parent_id	String	Definition: Parent ID. Value range: N/A
cloud_project_id	String	Definition: Project ID. Value range: The value consists of 32 characters, including digits and letters.
repos	Array of ComponentRepoVO objects	Definition: Microservice code repository. Value range: N/A
is_followed	Boolean	Definition: Whether the component is added to favorites. Value range: • true: The component has been added to favorites. • false: The component is not added to favorites.
creator_id	String	Definition: Creator ID. Value range: The value consists of 32 characters, including digits and letters.
creator_name	String	Definition: Creator name. Value range: N/A
create_time	String	Definition: Creation time. Value range: N/A

Parameter	Type	Description
updater_id	String	Definition: Updater ID. Value range: The value consists of 32 characters, including digits and letters.
updater_name	String	Definition: Updater name. Value range: N/A
update_time	String	Definition: Update time. Value range: N/A

Table 4-961 ComponentRepoVO

Parameter	Type	Description
type	String	Definition: Repository type. Value range: N/A
repo_id	String	Definition: Repo ID. Value range: N/A
http_url	String	Definition: HTTP address of the repository. Value range: N/A
git_url	String	Definition: GIT address of the repository. Value range: N/A

Parameter	Type	Description
branch	String	Definition: Branch. Value range: N/A
language	String	Definition: Language. Value range: N/A
endpoint_id	String	Definition: Endpoint ID. Value range: N/A

Example Requests

```
PUT https://{endpoint}/v2/2d09f712e9504b61b034cc8f40e475a8/component/
f7ced2341b204d2b82c607c6f0de5b4a/repo/update
```

```
[ {
  "type" : "codehub",
  "repo_id" : "804934",
  "http_url" : "https://example.com/test00001/maven.git",
  "git_url" : "git@example.com:test00001/maven.git",
  "branch" : "master",
  "language" : "python",
  "endpoint_id" : ""
}]
```

Example Responses

Status code: 200

Response body for updating a microservice code repository.

```
{
  "id" : "f7ced2341b204d2b82c607c6f0de5b4a",
  "name" : "11",
  "type" : "microservice",
  "description" : "112",
  "status" : "active",
  "parent_id" : null,
  "cloud_project_id" : "2d09f712e9504b61b034cc8f40e475a8",
  "repos" : [ {
    "type" : "codehub",
    "repo_id" : "804934",
    "http_url" : "https://example.com/test00001/maven.git",
    "git_url" : "git@example.com:test00001/maven.git",
    "branch" : "master",
    "language" : "python",
    "endpoint_id" : ""
  } ],
  "is_followed" : null,
  "creator_id" : "05d8ca972f114765a8984795a8aa4d41",
  "creator_name" : "p_test5",
}
```

```
"create_time" : "1709260209",
"updater_id" : "05d8ca972f114765a8984795a8aa4d41",
"updater_name" : "p_test5",
"update_time" : "1719318495"
}
```

Status Codes

Status Code	Description
200	Response body for updating a microservice code repository.

Error Codes

See [Error Codes](#).

4.11.6 Querying Microservice Details

Function

This API is used to query microservice details.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v2/{cloudProjectId}/component/{componentId}/query

Table 4-962 Path Parameters

Parameter	Mandatory	Type	Description
cloudProjectId	Yes	String	Project ID.
componentId	Yes	String	Microservice ID.

Request Parameters

None

Response Parameters

Status code: 200

Table 4-963 Response body parameters

Parameter	Type	Description
id	String	Definition: Microservice ID. Value range: The value consists of 32 characters, including digits and letters.
name	String	Definition: Microservice name. Value range: N/A
type	String	Definition: Microservice type. Value range: N/A
description	String	Definition: Microservice description. Value range: N/A
status	String	Definition: Microservice status. Value range: N/A
parent_id	String	Definition: Parent ID. Value range: N/A
cloud_project_id	String	Definition: Project ID. Value range: The value consists of 32 characters, including digits and letters.
repos	Array of ComponentRepoVO objects	Definition: Microservice code repository. Value range: N/A

Parameter	Type	Description
is_followed	Boolean	Definition: Whether the component is added to favorites. Value range: • true: The component has been added to favorites. • false: The component is not added to favorites.
creator_id	String	Definition: Creator ID. Value range: The value consists of 32 characters, including digits and letters.
creator_name	String	Definition: Creator name. Value range: N/A
create_time	String	Definition: Creation time. Value range: N/A
updater_id	String	Definition: Updater ID. Value range: The value consists of 32 characters, including digits and letters.
updater_name	String	Definition: Updater name. Value range: N/A
update_time	String	Definition: Update time. Value range: N/A

Table 4-964 ComponentRepoVO

Parameter	Type	Description
type	String	Definition: Repository type. Value range: N/A
repo_id	String	Definition: Repo ID. Value range: N/A
http_url	String	Definition: HTTP address of the repository. Value range: N/A
git_url	String	Definition: GIT address of the repository. Value range: N/A
branch	String	Definition: Branch. Value range: N/A
language	String	Definition: Language. Value range: N/A
endpoint_id	String	Definition: Endpoint ID. Value range: N/A

Example Requests

```
GET https://{endpoint}/v2/2d09f712e9504b61b034cc8f40e475a8/component/f7ced2341b204d2b82c607c6f0de5b4a/query
```

Example Responses

Status code: 200
Response body for querying microservice details.

```
{
  "id" : "f7ced2341b204d2b82c607c6f0de5b4a",
  "name" : "11",
  "type" : "microservice",
  "description" : "112",
  "status" : "active",
  "parent_id" : null,
  "cloud_project_id" : "2d09f712e9504b61b034cc8f40e475a8",
  "repos" : [ {
    "type" : "codehub",
    "repo_id" : "804934",
    "http_url" : "https://example.com/test00001/maven.git",
    "git_url" : "git@example.com:test00001/maven.git",
    "branch" : "master",
    "language" : "python",
    "endpoint_id" : ""
  } ],
  "is_followed" : null,
  "creator_id" : "05d8ca972f114765a8984795a8aa4d41",
  "creator_name" : "p_test5",
  "create_time" : "1709260209",
  "updater_id" : "05d8ca972f114765a8984795a8aa4d41",
  "updater_name" : "p_test5",
  "update_time" : "1719318495"
}
```

Status Codes

Status Code	Description
200	Response body for querying microservice details.

Error Codes

See [Error Codes](#).

4.11.7 Querying the Microservice List

Function

This API is used to query the microservice list.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v2/{cloudProjectId}/component/list/query

Table 4-965 Path Parameters

Parameter	Mandatory	Type	Description
cloudProjectId	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-966 Request body parameters

Parameter	Mandatory	Type	Description
offset	Yes	Integer	Definition: Offset where the query starts. Constraints: N/A Value range: The offset value must be no less than 0. Default value: N/A
limit	Yes	Integer	Definition: Number of records of each query. Constraints: N/A Value range: The value is no less than 0. Default value: N/A

Parameter	Mandatory	Type	Description
name	No	String	Definition: Microservice name. Constraints: N/A Value range: N/A Default value: N/A
sort_dir	No	String	Definition: Sorting direction. Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-967 Response body parameters

Parameter	Type	Description
data	Array of ComponentVO objects	Definition: Data details. Value range: N/A
total	Integer	Definition: Total number of records. Value range: N/A

Table 4-968 ComponentVO

Parameter	Type	Description
id	String	Definition: Microservice ID. Value range: The value consists of 32 characters, including digits and letters.
name	String	Definition: Microservice name. Value range: N/A
type	String	Definition: Microservice type. Value range: N/A
description	String	Definition: Microservice description. Value range: N/A
status	String	Definition: Microservice status. Value range: N/A
parent_id	String	Definition: Parent ID. Value range: N/A
cloud_project_id	String	Definition: Project ID. Value range: The value consists of 32 characters, including digits and letters.
repos	Array of ComponentRepoVO objects	Definition: Microservice code repository. Value range: N/A

Parameter	Type	Description
is_followed	Boolean	Definition: Whether the component is added to favorites. Value range: • true: The component has been added to favorites. • false: The component is not added to favorites.
creator_id	String	Definition: Creator ID. Value range: The value consists of 32 characters, including digits and letters.
creator_name	String	Definition: Creator name. Value range: N/A
create_time	String	Definition: Creation time. Value range: N/A
updater_id	String	Definition: Updater ID. Value range: The value consists of 32 characters, including digits and letters.
updater_name	String	Definition: Updater name. Value range: N/A
update_time	String	Definition: Update time. Value range: N/A

Table 4-969 ComponentRepoVO

Parameter	Type	Description
type	String	Definition: Repository type. Value range: N/A
repo_id	String	Definition: Repo ID. Value range: N/A
http_url	String	Definition: HTTP address of the repository. Value range: N/A
git_url	String	Definition: GIT address of the repository. Value range: N/A
branch	String	Definition: Branch. Value range: N/A
language	String	Definition: Language. Value range: N/A
endpoint_id	String	Definition: Endpoint ID. Value range: N/A

Example Requests

```
GET https://{endpoint}/v2/2d09f712e9504b61b034cc8f40e475a8/component/list/query

{
  "offset" : 0,
  "limit" : 10,
  "name" : "",
  "sort_dir" : ""
}
```

Example Responses

Status code: 200

Response body for querying microservices.

```
{
  "data": [ {
    "id": "f7ced2341b204d2b82c607c6f0de5b4a",
    "name": "11",
    "type": "microservice",
    "description": null,
    "status": "active",
    "parent_id": null,
    "cloud_project_id": "2d09f712e9504b61b034cc8f40e475a8",
    "repos": null,
    "is_followed": true,
    "creator_id": "05d8ca972f114765a8984795a8aa4d41",
    "creator_name": "north-5",
    "create_time": "1709260209",
    "updater_id": "05d8ca972f114765a8984795a8aa4d41",
    "updater_name": "north-5",
    "update_time": "1719319144"
  } ],
  "total": 1
}
```

Status Codes

Status Code	Description
200	Response body for querying microservices.

Error Codes

See [Error Codes](#).

4.11.8 Creating a Microservice

Function

This API is used to create a microservice.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v2/{cloudProjectId}/component/create

Table 4-970 Path Parameters

Parameter	Mandatory	Type	Description
cloudProjectId	Yes	String	Project ID.

Request Parameters

Table 4-971 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Name.
type	Yes	String	Type.
parent_id	Yes	String	Parent ID.
desc	Yes	String	Description.
repos	Yes	Array of ComponentRepoVO objects	Repository.

Table 4-972 ComponentRepoVO

Parameter	Mandatory	Type	Description
type	Yes	String	Definition: Repository type. Value range: N/A
repo_id	Yes	String	Definition: Repo ID. Value range: N/A
http_url	Yes	String	Definition: HTTP address of the repository. Value range: N/A

Parameter	Mandatory	Type	Description
git_url	Yes	String	Definition: GIT address of the repository. Value range: N/A
branch	Yes	String	Definition: Branch. Value range: N/A
language	Yes	String	Definition: Language. Value range: N/A
endpoint_id	No	String	Definition: Endpoint ID. Value range: N/A

Response Parameters

Status code: 200

Table 4-973 Response body parameters

Parameter	Type	Description
id	String	Definition: Microservice ID. Value range: The value consists of 32 characters, including digits and letters.
name	String	Definition: Microservice name. Value range: N/A
type	String	Definition: Microservice type. Value range: N/A

Parameter	Type	Description
description	String	Definition: Microservice description. Value range: N/A
status	String	Definition: Microservice status. Value range: N/A
parent_id	String	Definition: Parent ID. Value range: N/A
cloud_project_id	String	Definition: Project ID. Value range: The value consists of 32 characters, including digits and letters.
repos	Array of ComponentRepoVO objects	Definition: Microservice code repository. Value range: N/A
is_followed	Boolean	Definition: Whether the component is added to favorites. Value range: • true: The component has been added to favorites. • false: The component is not added to favorites.
creator_id	String	Definition: Creator ID. Value range: The value consists of 32 characters, including digits and letters.
creator_name	String	Definition: Creator name. Value range: N/A

Parameter	Type	Description
create_time	String	Definition: Creation time. Value range: N/A
updater_id	String	Definition: Updater ID. Value range: The value consists of 32 characters, including digits and letters.
updater_name	String	Definition: Updater name. Value range: N/A
update_time	String	Definition: Update time. Value range: N/A

Table 4-974 ComponentRepoVO

Parameter	Type	Description
type	String	Definition: Repository type. Value range: N/A
repo_id	String	Definition: Repo ID. Value range: N/A
http_url	String	Definition: HTTP address of the repository. Value range: N/A

Parameter	Type	Description
git_url	String	Definition: GIT address of the repository. Value range: N/A
branch	String	Definition: Branch. Value range: N/A
language	String	Definition: Language. Value range: N/A
endpoint_id	String	Definition: Endpoint ID. Value range: N/A

Example Requests

POST https://{endpoint}/v2/2d09f712e9504b61b034cc8f40e475a8/component/create

```
{
  "name" : "aaa",
  "type" : "microservice",
  "parent_id" : null,
  "desc" : "",
  "repos" : [ {
    "type" : "codehub",
    "repo_id" : "985241",
    "http_url" : "https://example.com/test00001/maven.git",
    "git_url" : "git@example.com:test00001/maven.git",
    "branch" : "master",
    "language" : "java",
    "endpoint_id" : ""
  } ]
}
```

Example Responses

Status code: 200

Response body for creating a microservice.

```
{
  "id" : "fcef80dd6a844d89fd12031fd83bac0",
  "name" : "aaa",
  "type" : "microservice",
  "description" : "",
  "status" : "active",
  "parent_id" : null,
}
```

```
{
  "cloud_project_id" : "2d09f712e9504b61b034cc8f40e475a8",
  "repos" : [ {
    "type" : "codehub",
    "repo_id" : "985241",
    "http_url" : "https://codehub.devcloud.{region}.huaweicloud.com/2d09f712e9504b61b034cc8f40e475a8/javaweb.git",
    "git_url" : "git@codehub.devcloud.{region}.huaweicloud.com:2d09f712e9504b61b034cc8f40e475a8/javaweb.git",
    "branch" : "master",
    "language" : "java",
    "endpoint_id" : ""
  } ],
  "is_followed" : null,
  "creator_id" : "05d8ca972f114765a8984795a8aa4d41",
  "creator_name" : "p_test_north5",
  "create_time" : "1719321282",
  "updater_id" : "05d8ca972f114765a8984795a8aa4d41",
  "updater_name" : "p_test_north5",
  "update_time" : "1719321282"
}
```

Status Codes

Status Code	Description
200	Response body for creating a microservice.

Error Codes

See [Error Codes](#).

4.11.9 Deleting a Microservice

Function

This API is used to delete a microservice.

Calling Method

For details, see [Calling APIs](#).

URI

DELETE /v2/{cloudProjectId}/component/{componentId}/delete

Table 4-975 Path Parameters

Parameter	Mandatory	Type	Description
cloudProjectId	Yes	String	Project ID.
componentId	Yes	String	Microservice ID.

Request Parameters

None

Response Parameters

Status code: 200

Table 4-976 Response body parameters

Parameter	Type	Description
-	String	Microservice ID.

Example Requests

```
DELETE https://{endpoint}/v2/2d09f712e9504b61b034cc8f40e475a8/component/  
fcefc80dd6a844d89fd12031fd83bac0/delete
```

Example Responses

Status code: 200

ok

```
fcefc80dd6a844d89fd12031fd83bac0
```

Status Codes

Status Code	Description
200	ok

Error Codes

See [Error Codes](#).

4.12 Template Management (Old Version, Unavailable Soon)

4.12.1 Querying Template List

Function

This API is used to query the template list. Pagination query is supported. Fuzzy query by template name is supported.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v3/templates

Table 4-977 Query Parameters

Parameter	Mandatory	Type	Description
template_type	Yes	String	Template type.
is_build_in	Yes	String	Whether the template is a built-in template or not.
offset	No	Integer	Offset, which is the position where the query starts. The value must be no less than 0.
limit	No	Integer	Number of records displayed on each page.
name	No	String	Template name, which is fuzzily matched.
sort	No	String	Sorting field.
asc	No	String	Whether the sequence is in ascending order.

Request Parameters

Table 4-978 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token .

Response Parameters

Status code: 200

Table 4-979 Response body parameters

Parameter	Type	Description
total	Integer	Definition: Total number of items. Value range: The value is no less than 0.
page_number	Integer	Page number.
page_size	Integer	Number of records displayed on each page.
content	Array of TemplateView objects	Template data, which is of the list type.

Table 4-980 TemplateView

Parameter	Type	Description
template_id	String	Template ID.
template_name	String	Template name.
template_type	String	Template type.
template_url	String	Template editing URL.
user_id	String	User ID.
user_name	String	User name.
domain_id	String	Tenant ID.
domain_name	String	Tenant name.
is_build_in	Boolean	Whether the template is a built-in template or not.
region	String	The region of the system template is Cloud Pipeline. The region of the custom template is the actual region.
project_id	String	Project ID.
project_name	String	Project name.
create_time	String	Creation time.
last_modify_time	String	Modification time.
is_watch	Boolean	Whether to follow.
description	String	Template description.

Parameter	Type	Description
parameter	Array of TemplateParam objects	Template parameter.
flow	Map<String,Map<String,String>>	Flow orchestration details, which describe the serial and parallel relationships of jobs in each stage of a pipeline. A Map type value, key indicates the stage name. By default, the first stage is initial , the last stage is final , and other stages are identified by state_digit . The value is the ID of the task (identified by Task_digit) in the stage and the ID of the subsequent stage. This field is one of the basic orchestration data of a pipeline. It is advised to obtain the value from the template-based creation API on the pipeline web UI.
states	Map<String, TemplateState >	State orchestration details. It is a Map type value. This field is one of the basic orchestration data of a pipeline. It is advised to obtain the value from the template-based creation API on the pipeline web UI.
can_update	Boolean	Whether it can be modified.
can_delete	Boolean	Whether it can be deleted.
need_hub	Boolean	Whether a code repository is required.

Table 4-981 TemplateParam

Parameter	Type	Description
required	String	Whether the parameter is mandatory.
visible	String	Whether the parameter is visible.
name	String	Pipeline parameter name.
value	String	Pipeline parameter value.
description	String	Pipeline parameter description.
paramtype	String	Pipeline parameter type.
display_type	String	Pipeline parameter display type.
display_name	String	Pipeline parameter display name.

Parameter	Type	Description
is_static	Boolean	Whether it is a static parameter.
is_default	Boolean	Whether it is a default parameter.
limits	Array of ParamTypeLimits objects	Data of the Array type.
constraints	Array of Constraint objects	Data of the Array type.

Table 4-982 ParamTypeLimits

Parameter	Type	Description
disable	String	Whether it is discarded.
name	String	Language name.
displayname	String	Language display name.
id	String	Policy ID.
language	String	Scanning language.

Table 4-983 Constraint

Parameter	Type	Description
type	String	Verification rule type.
value	String	Verification rule.
errmsg	String	Verification failure description.

Table 4-984 TemplateState

Parameter	Type	Description
type	String	Job type.
name	String	Job name.
module_or_template_id	String	Template job ID.
module_or_template_name	String	Template job name.

Parameter	Type	Description
display_name	String	Job name displayed on the pipeline page.
dsl_method	String	Types of jobs that can be mounted to a pipeline.
parameters	Map<String,Object>	Job parameter. The value is of the map type.
is_manual_execution	Boolean	Whether to manually execute the job.
job_parameter_validate	Boolean	Whether to verify job parameters.
is_show_codehub_url	Boolean	Whether to display the code repository URL.
is_execute	Boolean	Whether to execute
job_id	String	ID of the executed job.
job_name	String	Name of the executed job.
project_id	String	ID of the project to which the job belongs.
execution_mode	String	This parameter controls the execution mode of jobs in a stage. If type is task , the value of execution_mode is null. If type is stage , the value of execution_mode can be parallel or serial .

Status code: 400**Table 4-985** Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

```
GET https://{endpoint}/v3/templates?template_type=pipeline&is_build_in=false&offset=0&limit=10
```

Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class ListTemplatesSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        ListTemplatesRequest request = new ListTemplatesRequest();
        try {
            ListTemplatesResponse response = client.listTemplates(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8
```

```
import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListTemplatesRequest()
        response = client.list_templates(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListTemplatesRequest{}
    response, err := client.ListTemplates(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
```



```
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.12.2 Querying Template Details

Function

This API is used to query template details.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v3/templates/{template_id}

Table 4-986 Path Parameters

Parameter	Mandatory	Type	Description
template_id	Yes	String	Template ID.

Table 4-987 Query Parameters

Parameter	Mandatory	Type	Description
template_type	Yes	String	Template type.
source	No	String	API callers.

Request Parameters

Table 4-988 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token .

Response Parameters

Status code: 200

Table 4-989 Response body parameters

Parameter	Type	Description
template_id	String	Template ID.
template_name	String	Template name.
template_type	String	Template type.
user_id	String	User ID.
user_name	String	User name.
domain_id	String	Tenant ID.
domain_name	String	Tenant name.
is_build_in	Boolean	Whether the template is a built-in template or not.
region	String	Region
project_id	String	Project ID.
project_name	String	Project name.
create_time	String	Creation time.

Parameter	Type	Description
last_modify_time	String	Modification time.
is_watch	Boolean	Whether it is followed.
description	String	Template description.
parameter	Array of TemplateParam objects	Template parameter.
flow	Map<String,Map<String,String>>	Flow orchestration details, which describe the serial and parallel relationships of jobs in each stage of a pipeline. A Map type value, key indicates the stage name. By default, the first stage is initial , the last stage is final , and other stages are identified by state_digit . The value is the ID of the task (identified by Task_digit) in the stage and the ID of the subsequent stage. This field is one of the basic orchestration data of a pipeline. It is advised to obtain the value from the template-based creation API on the pipeline web UI.
states	Map<String, TemplateState >	State orchestration details. It is a Map type value. This field is one of the basic orchestration data of a pipeline. It is advised to obtain the value from the template-based creation API on the pipeline web UI.

Table 4-990 TemplateParam

Parameter	Type	Description
required	String	Whether the parameter is mandatory.
visible	String	Whether the parameter is visible.
name	String	Pipeline parameter name.
value	String	Pipeline parameter value.
description	String	Pipeline parameter description.
paramtype	String	Pipeline parameter type.
display_type	String	Pipeline parameter display type.
display_name	String	Pipeline parameter display name.

Parameter	Type	Description
is_static	Boolean	Whether it is a static parameter.
is_default	Boolean	Whether it is a default parameter.
limits	Array of ParamTypeLimits objects	Data of the Array type.
constraints	Array of Constraint objects	Data of the Array type.

Table 4-991 ParamTypeLimits

Parameter	Type	Description
disable	String	Whether it is discarded.
name	String	Language name.
displayname	String	Language display name.
id	String	Policy ID.
language	String	Scanning language.

Table 4-992 Constraint

Parameter	Type	Description
type	String	Verification rule type.
value	String	Verification rule.
errmsg	String	Verification failure description.

Table 4-993 TemplateState

Parameter	Type	Description
type	String	Job type.
name	String	Job name.
module_or_template_id	String	Template job ID.
module_or_template_name	String	Template job name.

Parameter	Type	Description
display_name	String	Job name displayed on the pipeline page.
dsl_method	String	Types of jobs that can be mounted to a pipeline.
parameters	Map<String,Object>	Job parameter. The value is of the map type.
is_manual_execution	Boolean	Whether to manually execute the job.
job_parameter_validate	Boolean	Whether to verify job parameters.
is_show_codehub_url	Boolean	Whether to display the code repository URL.
is_execute	Boolean	Whether to execute
job_id	String	ID of the executed job.
job_name	String	Name of the executed job.
project_id	String	ID of the project to which the job belongs.
execution_mode	String	This parameter controls the execution mode of jobs in a stage. If type is task , the value of execution_mode is null. If type is stage , the value of execution_mode can be parallel or serial .

Status code: 400**Table 4-994** Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

```
GET https://{endpoint}/v3/templates/6efb0b24e2e9489eb0e53ee12904a19e?template_type=deployMan
```

Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class ShowTemplateDetailSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowTemplateDetailRequest request = new ShowTemplateDetailRequest();
        request.withTemplateId("{template_id}");
        try {
            ShowTemplateDetailResponse response = client.showTemplateDetail(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowTemplateDetailRequest()
        request.template_id = "{template_id}"
        response = client.show_template_detail(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())
```

```
request := &model.ShowTemplateDetailRequest{}
request.TemplateId = "{template_id}"
response, err := client.ShowTemplateDetail(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.13 Pipeline Management (Old Version, Unavailable Soon)

4.13.1 Quickly Creating a Pipeline and Jobs with a Template

Function

This API is used to quickly create a pipeline and jobs with a template.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v3/templates/task

Request Parameters

Table 4-995 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token .

Table 4-996 Request body parameters

Parameter	Mandatory	Type	Description
flow	Yes	Map<String,Map<String,String>>	Definition: Orchestration flow details, which describe the serial and parallel jobs in each stage of a pipeline. The value is of the map type. key is the stage name. By default, the first stage is initial , the last stage is final , and other stage are identified by <i>state_number</i> . value indicates jobs in a stage (identified by Task_number), as well as the identifiers of subsequent stages to be executed. This field is one of the basic orchestration data of the pipeline. You are advised to obtain the data based on the template creation API on the pipeline page. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
states	Yes	Map<String,TemplateState>	Definition: Orchestration state details. The value is of the map type. This field is one of the basic orchestration data of the pipeline. You are advised to obtain it from the template creation API on the pipeline page. Constraints: N/A Value range: N/A Default value: N/A
workflow	Yes	Workflow object	Definition: Parameter details. Constraints: N/A Value range: N/A Default value: N/A

Table 4-997 TemplateState

Parameter	Mandatory	Type	Description
type	Yes	String	Job type.
name	Yes	String	Job name.
module_or_template_id	Yes	String	Template job ID.
module_or_template_name	Yes	String	Template job name.
display_name	Yes	String	Job name displayed on the pipeline page.
dsl_method	Yes	String	Types of jobs that can be mounted to a pipeline.
parameters	Yes	Map<String,Object>	Job parameter. The value is of the map type.

Parameter	Mandatory	Type	Description
is_manual_execution	Yes	Boolean	Whether to manually execute the job.
job_parameter_validate	Yes	Boolean	Whether to verify job parameters.
is_show_codehub_url	Yes	Boolean	Whether to display the code repository URL.
is_execute	Yes	Boolean	Whether to execute
job_id	Yes	String	ID of the executed job.
job_name	Yes	String	Name of the executed job.
project_id	Yes	String	ID of the project to which the job belongs.
execution_mode	Yes	String	This parameter controls the execution mode of jobs in a stage. If type is task , the value of execution_mode is null. If type is stage , the value of execution_mode can be parallel or serial .

Table 4-998 Workflow

Parameter	Mandatory	Type	Description
parameter	Yes	Array of PipelineParameter objects	Definition: Job type. The value is of the list type. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
source	Yes	Array of Source objects	Definition: Source code repository. The value is of the list type. Constraints: N/A Value range: N/A Default value: N/A
name	Yes	String	Definition: Pipeline name. Constraints: N/A Value range: N/A Default value: N/A
project_id	Yes	String	Definition: Project ID. Constraints: N/A Value range: N/A Default value: N/A
project_name	Yes	String	Definition: Project name. Constraints: N/A Value range: N/A Default value: N/A

Table 4-999 PipelineParam

Parameter	Mandatory	Type	Description
name	Yes	String	Definition: Pipeline parameter name. Constraints: N/A Value range: N/A Default value: N/A
value	Yes	String	Definition: Pipeline parameter value. Constraints: N/A Value range: N/A Default value: N/A
description	Yes	String	Definition: Pipeline parameter description. Constraints: N/A Value range: N/A Default value: N/A
param_type	Yes	String	Definition: Pipeline parameter type. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
is_static	Yes	Boolean	Definition: Whether the parameter is static. Constraints: N/A Value range: • true: The parameter is a static parameter. • false: The parameter is not a static parameter. Default value: N/A
is_default	Yes	Boolean	Definition: Whether the parameter is a default parameter. Constraints: N/A Value range: • true: The parameter is a default parameter. • false: The parameter is not a default parameter. Default value: N/A

Table 4-1000 Source

Parameter	Mandatory	Type	Description
codehub_name	Yes	String	Source code repository name.
branches	Yes	Array of strings	Triggered branch
scm_type	Yes	String	Source code repository type.
hook_flag	Yes	Boolean	Whether to enable the function of triggering pipeline execution.
branch	Yes	String	Triggered branch.
git_url	Yes	String	SSH address of the source code repository.

Parameter	Mandatory	Type	Description
codehub_id	Yes	String	Source code repository ID.
web_url	Yes	String	URL of the source code repository homepage.
branch_list	Yes	Array of strings	Branch list.
init_id	Yes	String	Initialization ID.
disable	Yes	Boolean	Whether to discard

Response Parameters

Status code: 200

Table 4-1001 Response body parameters

Parameter	Type	Description
task_id	String	Definition: Instance ID. Value range: The value consists of 32 characters, including digits and letters.

Status code: 400

Table 4-1002 Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

```
POST https://{endpoint}/v3/templates/task
```

```
{
  "flow" : {
    "initial" : {
      "state_3" : "always"
    },
    "state_3" : {
      "state_4" : "always"
    },
    "state_4" : {
      "state_5" : "always",
      "Task_1" : "always",
      "Task_2" : "always"
    },
    "state_5" : {
      "final" : "always"
    }
  },
  "states" : {
    "initial" : {
      "type" : "stage",
      "name" : "initial",
      "module_or_template_id" : null,
      "module_or_template_name" : null,
      "display_name" : "Initial",
      "dsl_method" : "initial",
      "parameters" : {
        "display" : "hidden"
      },
      "params" : null,
      "is_manual_mexecution" : false,
      "execution_mode" : "parallel"
    },
    "state_3" : {
      "type" : "stage",
      "name" : "state_3",
      "module_or_template_id" : null,
      "module_or_template_name" : null,
      "display_name" : "Source",
      "dsl_method" : "source",
      "parameters" : null,
      "params" : null,
      "is_manual_execution" : false,
      "execution_mode" : "parallel"
    },
    "Task_1" : {
      "type" : "task",
      "name" : "Task_1",
      "module_or_template_id" : "00012",
      "module_or_template_name" : "Maven",
      "display_name" : "Build_Task",
      "dsl_method" : "buildJob",
      "parameters" : {
        "__repository__" : {
          "repo_name" : "fdfdfdf",
          "url" : "git@example.com:CloudPipelineTest-Copy00001/fdfdfdf.git"
        }
      },
      "params" : null,
      "is_manual_execution" : false,
      "execution_mode" : null,
      "job_parameter_validate" : true,
      "is_show_code_hub_url" : false,
      "is_execute" : true,
      "job_id" : "00012",
      "job_name" : "Maven",
      "project_id" : "4719b59466624abfbaf0f83c3ce3a0dc"
    },
    "Task_2" : {
      "type" : "task",
```



```
"name" : "Task_2",
"module_or_template_id" : "d7dffaefb6d94c63a09cf141668356c7",
"module_or_template_name" : "codecheck_template",
"display_name" : "Code_Check_Task",
"dsl_method" : "codeCheck",
"parameters" : {
  "language" : {
    "disable" : null,
    "name" : "Java",
    "display_name" : "Java",
    "id" : "782aade71ffb4ab780303555eb2e4825",
    "language" : "java"
  },
  "codeBranch" : "master",
  "__repository__" : {
    "repo_name" : "fdfdfd",
    "url" : "git@example.com:CloudPipelineTest-Copy00001/fdfdfd.git"
  }
},
"params" : null,
"is_manual_execution" : false,
"execution_mode" : null,
"job_parameter_validate" : true,
"is_show_code_hub_url" : false,
"is_execute" : true,
"job_id" : "d7dffaefb6d94c63a09cf141668356c7",
"job_name" : "codecheck_template",
"project_id" : "4719b59466624abfbaf0f83c3ce3a0dc"
},
"state_4" : {
  "type" : "stage",
  "name" : "state_4",
  "module_or_template_id" : null,
  "module_or_template_name" : null,
  "display_name" : "Build_and_Check",
  "dsl_method" : "build",
  "parameters" : null,
  "params" : null,
  "is_manual_execution" : false,
  "execution_mode" : "parallel"
},
"state_5" : {
  "type" : "stage",
  "name" : "state_5",
  "module_or_template_id" : null,
  "module_or_template_name" : null,
  "display_name" : "Release",
  "dsl_method" : "release",
  "parameters" : null,
  "params" : null,
  "is_manual_execution" : false,
  "execution_mode" : "parallel"
},
"final" : {
  "type" : "stage",
  "name" : "final",
  "module_or_template_id" : null,
  "module_or_template_name" : null,
  "display_name" : "Final",
  "dsl_method" : "final",
  "parameters" : null,
  "params" : null,
  "is_manual_execution" : false,
  "execution_mode" : "parallel"
}
},
"workflow" : {
  "parameter" : [ {
    "name" : "serviceName",
```

```
{
  "value": "pipeline-20201229165622",
  "description": "this is a text type param",
  "paramtype": "normalparam",
  "display_name": null,
  "isStatic": true,
  "isDefault": true,
  "constraints": null
}, {
  "name": "releaseVersion",
  "value": "1.0.0",
  "description": "this is a growth type param",
  "paramtype": "growthparam",
  "display_name": null,
  "isStatic": false,
  "isDefault": true,
  "constraints": null
} ],
"source": [ {
  "scmType": "codehub",
  "codeHubName": "fdfd",
  "hookFlag": false,
  "branches": [ ],
  "defaultBranch": "master",
  "branch": "",
  "codeHubId": "5224040",
  "gitUrl": "git@example.com:CloudPipelineTest-Copy00001/fdfdfdf.git",
  "webUrl": "https://example.com/codehub/project/bc97c4d99c7d4f98bb6cd104a77fddd6/codehub/140000127/home",
  "branchList": [ "master" ]
} ],
"name": "pipeline-123123",
"description": "",
"project_id": "bc97c4d99c7d4f98bb6cd104a77fddd6",
"project_name": "CloudPipelineTest-Copy"
},
"changeInfo": null
}
```

Example Responses

Status code: 200

OK

```
{
  "task_id": "eafaff0bf9094d3d8456d13dddf67b40"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

import java.util.List;
import java.util.ArrayList;
```

```
import java.util.Map;
import java.util.HashMap;

public class CreatePipelineByTemplateSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        CreatePipelineByTemplateRequest request = new CreatePipelineByTemplateRequest();
        TemplateCddl body = new TemplateCddl();
        List<Source> listWorkflowSource = new ArrayList<>();
        listWorkflowSource.add(
            new Source()
                .withBranches()
                .withBranch("")
        );
        List<PipelineParam> listWorkflowParameter = new ArrayList<>();
        listWorkflowParameter.add(
            new PipelineParam()
                .withName("serviceName")
                .withValue("pipeline-20201229165622")
                .withDescription("this is a text type param")
        );
        listWorkflowParameter.add(
            new PipelineParam()
                .withName("releaseVersion")
                .withValue("1.0.0")
                .withDescription("this is a growth type param")
        );
        Workflow workflowbody = new Workflow();
        workflowbody.withParameter(listWorkflowParameter)
            .withSource(listWorkflowSource)
            .withName("pipeline-123123")
            .withProjectId("bc97c4d99c7d4f98bb6cd104a77fddd6")
            .withProjectName("CloudPipelineTest-Copy");
        TemplateState statesStates = new TemplateState();
        statesStates.withType("stage")
            .withName("final")
            .withDisplayName("Final")
            .withDslMethod("final")
            .withExecutionMode("parallel");
        TemplateState statesStates1 = new TemplateState();
        statesStates1.withType("stage")
            .withName("state_5")
            .withDisplayName("Release")
            .withDslMethod("release")
            .withExecutionMode("parallel");
        TemplateState statesStates2 = new TemplateState();
        statesStates2.withType("stage")
            .withName("state_4")
            .withDisplayName("Build_and_Check")
            .withDslMethod("build")
            .withExecutionMode("parallel");
        Map<String, Object> listStatesParameters = new HashMap<>();
        listStatesParameters.put("language", "{ \"name\": \"Java\", \"language\": \"java\", \"id
```

```
\":\782aade71ffb4ab780303555eb2e4825\,\display_name\":"Java\"}");
listStatesParameters.put("codeBranch", "master");
listStatesParameters.put("__repository__", "{\repo_name\":"fdfd\","url
\":"git@example.com:CloudPipelineTest-Copy00001/fdfdfdf.git\"}");
TemplateState statesStates3 = new TemplateState();
statesStates3.withType("task")
.withName("Task_2")
.withModuleOrTemplateId("d7dffaefb6d94c63a09cf141668356c7")
.withModuleOrTemplateName("codecheck_template")
.withDisplayName("Code_Check_Task")
.withDslMethod("codeCheck")
.withParameters(listStatesParameters)
.withIsManualExecution(false)
.withIsExecute(true)
.withJobId("d7dffaefb6d94c63a09cf141668356c7")
.withJobName("codecheck_template")
.withProjectId("4719b59466624abfbae0f83c3ce3a0dc");
Map<String, Object> listStatesParameters1 = new HashMap<>();
listStatesParameters1.put("__repository__", "{\repo_name\":"fdfd\","url
\":"git@example.com:CloudPipelineTest-Copy00001/fdfdfdf.git\"}");
TemplateState statesStates4 = new TemplateState();
statesStates4.withType("task")
.withName("Task_1")
.withModuleOrTemplateId("00012")
.withModuleOrTemplateName("Maven")
.withDisplayName("Build_Task")
.withDslMethod("buildJob")
.withParameters(listStatesParameters1)
.withIsManualExecution(false)
.withIsExecute(true)
.withJobId("00012")
.withJobName("Maven")
.withProjectId("4719b59466624abfbae0f83c3ce3a0dc");
TemplateState statesStates5 = new TemplateState();
statesStates5.withType("stage")
.withName("state_3")
.withDisplayName("Source")
.withDslMethod("source")
.withIsManualExecution(false)
.withExecutionMode("parallel");
Map<String, Object> listStatesParameters2 = new HashMap<>();
listStatesParameters2.put("display", "hidden");
TemplateState statesStates6 = new TemplateState();
statesStates6.withType("stage")
.withName("initial")
.withDisplayName("Initial")
.withDslMethod("initial")
.withParameters(listStatesParameters2)
.withExecutionMode("parallel");
Map<String, TemplateState> listbodyStates = new HashMap<>();
listbodyStates.put("initial", statesStates6);
listbodyStates.put("state_3", statesStates5);
listbodyStates.put("Task_1", statesStates4);
listbodyStates.put("Task_2", statesStates3);
listbodyStates.put("state_4", statesStates2);
listbodyStates.put("state_5", statesStates1);
listbodyStates.put("final", statesStates);
Map<String, String> listFlowFlow = new HashMap<>();
listFlowFlow.put("final", "always");
Map<String, String> listFlowFlow1 = new HashMap<>();
listFlowFlow1.put("state_5", "always");
listFlowFlow1.put("Task_1", "always");
listFlowFlow1.put("Task_2", "always");
Map<String, String> listFlowFlow2 = new HashMap<>();
listFlowFlow2.put("state_4", "always");
Map<String, String> listFlowFlow3 = new HashMap<>();
listFlowFlow3.put("state_3", "always");
Map<String, Map<String, String>> listbodyFlow = new HashMap<>();
listbodyFlow.put("initial", listFlowFlow3);
```

```
listbodyFlow.put("state_3", listFlowFlow2);
listbodyFlow.put("state_4", listFlowFlow1);
listbodyFlow.put("state_5", listFlowFlow);
body.withWorkflow(workflowbody);
body.withStates(listbodyStates);
body.withFlow(listbodyFlow);
request.withBody(body);
try {
    CreatePipelineByTemplateResponse response = client.createPipelineByTemplate(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = CreatePipelineByTemplateRequest()
        listSourceWorkflow = [
            Source(
                branch=""
            )
        ]
        listParameterWorkflow = [
            PipelineParam(
                name="serviceName",
                value="pipeline-20201229165622",
                description="this is a text type param"
            ),
            PipelineParam(
                name="releaseVersion",
                value="1.0.0",
                description="this is a growth type param"
            )
        ]
```

```
workflowbody = Workflow(  
    parameter=listParameterWorkflow,  
    source=listSourceWorkflow,  
    name="pipeline-123123",  
    project_id="bc97c4d99c7d4f98bb6cd104a77fddd6",  
    project_name="CloudPipelineTest-Copy"  
)  
statesStates = TemplateState(  
    type="stage",  
    name="final",  
    display_name="Final",  
    dsl_method="final",  
    execution_mode="parallel"  
)  
statesStates1 = TemplateState(  
    type="stage",  
    name="state_5",  
    display_name="Release",  
    dsl_method="release",  
    execution_mode="parallel"  
)  
statesStates2 = TemplateState(  
    type="stage",  
    name="state_4",  
    display_name="Build_and_Check",  
    dsl_method="build",  
    execution_mode="parallel"  
)  
listParametersStates = {  
    "language": "{ \"name\": \"Java\", \"language\": \"java\", \"id  
\\\": \"782aade71ffb4ab780303555eb2e4825\", \"display_name\": \"Java\" }",  
    "codeBranch": "master",  
    "__repository__": "{ \"repo_name\": \"fdfd\", \"url\": \"git@example.com:CloudPipelineTest-  
Copy00001/fdfdf.git\" }"  
}  
statesStates3 = TemplateState(  
    type="task",  
    name="Task_2",  
    module_or_template_id="d7dffaefb6d94c63a09cf141668356c7",  
    module_or_template_name="codecheck_template",  
    display_name="Code_Check_Task",  
    dsl_method="codeCheck",  
    parameters=listParametersStates,  
    is_manual_execution=False,  
    is_execute=True,  
    job_id="d7dffaefb6d94c63a09cf141668356c7",  
    job_name="codecheck_template",  
    project_id="4719b59466624abfbae0f83c3ce3a0dc"  
)  
listParametersStates1 = {  
    "__repository__": "{ \"repo_name\": \"fdfd\", \"url\": \"git@example.com:CloudPipelineTest-  
Copy00001/fdfdf.git\" }"  
}  
statesStates4 = TemplateState(  
    type="task",  
    name="Task_1",  
    module_or_template_id="00012",  
    module_or_template_name="Maven",  
    display_name="Build_Task",  
    dsl_method="buildJob",  
    parameters=listParametersStates1,  
    is_manual_execution=False,  
    is_execute=True,  
    job_id="00012",  
    job_name="Maven",  
    project_id="4719b59466624abfbae0f83c3ce3a0dc"  
)  
statesStates5 = TemplateState(  
    type="stage",
```

```
        name="state_3",
        display_name="Source",
        dsl_method="source",
        is_manual_execution=False,
        execution_mode="parallel"
    )
    listParametersStates2 = {
        "display": "hidden"
    }
    statesStates6 = TemplateState(
        type="stage",
        name="initial",
        display_name="Initial",
        dsl_method="initial",
        parameters=listParametersStates2,
        execution_mode="parallel"
    )
    listStatesbody = {
        "initial": statesStates6,
        "state_3": statesStates5,
        "Task_1": statesStates4,
        "Task_2": statesStates3,
        "state_4": statesStates2,
        "state_5": statesStates1,
        "final": statesStates
    }
    listFlowFlow = {
        "final": "always"
    }
    listFlowFlow1 = {
        "state_5": "always",
        "Task_1": "always",
        "Task_2": "always"
    }
    listFlowFlow2 = {
        "state_4": "always"
    }
    listFlowFlow3 = {
        "state_3": "always"
    }
    listFlowbody = {
        "initial": listFlowFlow3,
        "state_3": listFlowFlow2,
        "state_4": listFlowFlow1,
        "state_5": listFlowFlow
    }
    request.body = TemplateCddl(
        workflow=workflowbody,
        states=listStatesbody,
        flow=listFlowbody
    )
    response = client.create_pipeline_by_template(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
```

```
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.CreatePipelineByTemplateRequest{
    var listSourceWorkflow = []model.Source{
        {
            Branch: "",
        },
    }
    var listParameterWorkflow = []model.PipelineParam{
        {
            Name: "serviceName",
            Value: "pipeline-20201229165622",
            Description: "this is a text type param",
        },
        {
            Name: "releaseVersion",
            Value: "1.0.0",
            Description: "this is a growth type param",
        },
    },
    }
    workflowbody := &model.Workflow{
        Parameter: listParameterWorkflow,
        Source: listSourceWorkflow,
        Name: "pipeline-123123",
        ProjectId: "bc97c4d99c7d4f98bb6cd104a77fddd6",
        ProjectName: "CloudPipelineTest-Copy",
    }
    statesStates := model.TemplateState{
        Type: "stage",
        Name: "final",
        DisplayName: "Final",
        DslMethod: "final",
        ExecutionMode: "parallel",
    }
    statesStates1 := model.TemplateState{
        Type: "stage",
        Name: "state_5",
        DisplayName: "Release",
        DslMethod: "release",
        ExecutionMode: "parallel",
    }
    statesStates2 := model.TemplateState{
        Type: "stage",
        Name: "state_4",
        DisplayName: "Build_and_Check",
        DslMethod: "build",
        ExecutionMode: "parallel",
    }
    var listParametersStates = map[string]interface{}{
```



```

language": "{ \"name\": \"Java\", \"language\": \"java\", \"id
\\\": \"782aade71ffb4ab78030355eb2e4825\\\", \"display_name\": \"Java\" }\",
  \"codeBranch\": \"master\",
  \"__repository__\": \"{ \"repo_name\": \"fdfdfdf\", \"url\": \"git@example.com:CloudPipelineTest-Copy00001/
fdfdfdf.git\" }\",
}
statesStates3 := model.TemplateState{
  Type: \"task\",
  Name: \"Task_2\",
  ModuleOrTemplateId: \"d7dffaefb6d94c63a09cf141668356c7\",
  ModuleOrTemplateName: \"codecheck_template\",
  DisplayName: \"Code_Check_Task\",
  DslMethod: \"codeCheck\",
  Parameters: listParametersStates,
  IsManualExecution: false,
  IsExecute: true,
  JobId: \"d7dffaefb6d94c63a09cf141668356c7\",
  JobName: \"codecheck_template\",
  ProjectId: \"4719b59466624abfbae0f83c3ce3a0dc\",
}
var listParametersStates1 = map[string]interface{}{
  \"__repository__\": \"{ \"repo_name\": \"fdfdfdf\", \"url\": \"git@example.com:CloudPipelineTest-Copy00001/
fdfdfdf.git\" }\",
}
statesStates4 := model.TemplateState{
  Type: \"task\",
  Name: \"Task_1\",
  ModuleOrTemplateId: \"00012\",
  ModuleOrTemplateName: \"Maven\",
  DisplayName: \"Build_Task\",
  DslMethod: \"buildJob\",
  Parameters: listParametersStates1,
  IsManualExecution: false,
  IsExecute: true,
  JobId: \"00012\",
  JobName: \"Maven\",
  ProjectId: \"4719b59466624abfbae0f83c3ce3a0dc\",
}
statesStates5 := model.TemplateState{
  Type: \"stage\",
  Name: \"state_3\",
  DisplayName: \"Source\",
  DslMethod: \"source\",
  IsManualExecution: false,
  ExecutionMode: \"parallel\",
}
var listParametersStates2 = map[string]interface{}{
  \"display\": \"hidden\",
}
statesStates6 := model.TemplateState{
  Type: \"stage\",
  Name: \"initial\",
  DisplayName: \"Initial\",
  DslMethod: \"initial\",
  Parameters: listParametersStates2,
  ExecutionMode: \"parallel\",
}
var listStatesbody = map[string](model.TemplateState){
  \"initial\": statesStates6,
  \"state_3\": statesStates5,
  \"Task_1\": statesStates4,
  \"Task_2\": statesStates3,
  \"state_4\": statesStates2,
  \"state_5\": statesStates1,
  \"final\": statesStates,
}
var listFlowFlow = map[string]string{
  \"final\": \"always\",
}

```

```
var listFlowFlow2 = map[string]string{
    "state_5": "always",
    "Task_1": "always",
    "Task_2": "always",
}
var listFlowFlow6 = map[string]string{
    "state_4": "always",
}
var listFlowFlow8 = map[string]string{
    "state_3": "always",
}
var listFlowbody = map[string]map[string]string{
    "initial": listFlowFlow8,
    "state_3": listFlowFlow6,
    "state_4": listFlowFlow2,
    "state_5": listFlowFlow,
}
request.Body = &model.TemplateCddl{
    Workflow: workflowbody,
    States: listStatesbody,
    Flow: listFlowbody,
}
response, err := client.CreatePipelineByTemplate(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.13.2 Checking the Pipeline Creation Status

Function

This API is used to check the pipeline creation status.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v3/templates/{task_id}/status

Table 4-1003 Path Parameters

Parameter	Mandatory	Type	Description
task_id	Yes	String	Instance ID.

Request Parameters

Table 4-1004 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token .

Response Parameters

Status code: 200

Table 4-1005 Response body parameters

Parameter	Type	Description
task_id	String	ID of the pipeline creation instance.
task_status	String	Instance creation status. The value can be initializing , processing , finished , or succeeded .
pipeline_id	String	Pipeline ID.
pipeline_name	String	Pipeline name.
pipeline_url	String	URL of the pipeline details page.

Status code: 400

Table 4-1006 Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

```
GET https://{endpoint}/v3/templates/eafaff0bf9094d3d8456d13dddf67b40/status
```

Example Responses

Status code: 200

OK

```
{
  "task_id" : "eafaff0bf9094d3d8456d13dddf67b40",
  "task_status" : "succeeded",
  "pipeline_id" : "4f73c81f5d98455eab7a2fda2f3d2434",
  "pipeline_name" : "pipeline-20200316144601",
  "pipeline_url" : "https://example.com/3560a08e3c5143c5bb0236e0ef910926/pipeline/detail/4f73c81f5d98455eab7a2fda2f3d2434"
}
```

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.13.3 Starting a Pipeline

Function

This API is used to start a pipeline.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v3/pipelines/{pipeline_id}/start

Table 4-1007 Path Parameters

Parameter	Mandatory	Type	Description
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including only digits and letters. Default value: N/A

Request Parameters

Table 4-1008 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Table 4-1009 Request body parameters

Parameter	Mandatory	Type	Description
build_params	No	Array of StartPipelineBuildParams objects	Parameter description: Build parameters for starting a pipeline. Constraints: N/A Value range: Max. 8192 characters. Default value: N/A

Table 4-1010 StartPipelineBuildParams

Parameter	Mandatory	Type	Description
name	Yes	String	Definition: Build parameter name. Constraints: N/A Value range: N/A Default value: N/A
value	Yes	String	Definition: Build parameter value. Constraints: N/A Value range: Max. 8,192 characters. Default value: N/A

Response Parameters

Status code: 200

Table 4-1011 Response body parameters

Parameter	Type	Description
pipeline_id	String	Definition: Pipeline ID. Value range: The value consists of 32 characters, including digits and letters.
build_id	String	Definition: Pipeline execution ID. Value range: The value consists of 32 characters, including digits and letters.

Status code: 400

Table 4-1012 Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

Start a pipeline.

Set the startup parameters to ServiceName:pipeline-Test and version:1.0.0.

```
{
  "build_params": [ {
    "name": "ServiceName",
    "value": "pipeline-Test"
  }, {
    "name": "version",
    "value": "1.0.0"
  } ]
}
```

Example Responses

Status code: 200

OK

```
{
  "pipeline_id": "8025ba36a87a4dd5af496708c2961817",
  "build_id": "23"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

Start a pipeline.

Set the startup parameters to ServiceName:pipeline-Test and version:1.0.0.

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
```



```
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

import java.util.List;
import java.util.ArrayList;

public class StartNewPipelineSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        StartNewPipelineRequest request = new StartNewPipelineRequest();
        request.withPipelineId("{pipeline_id}");
        StartPipelineParameters body = new StartPipelineParameters();
        List<StartPipelineBuildParams> listbodyBuildParams = new ArrayList<>();
        listbodyBuildParams.add(
            new StartPipelineBuildParams()
                .withName("ServiceName")
                .withValue("pipeline-Test")
        );
        listbodyBuildParams.add(
            new StartPipelineBuildParams()
                .withName("version")
                .withValue("1.0.0")
        );
        body.withBuildParams(listbodyBuildParams);
        request.withBody(body);
        try {
            StartNewPipelineResponse response = client.startNewPipeline(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

Start a pipeline.

Set the startup parameters to ServiceName:pipeline-Test and version:1.0.0.

```
# coding: utf-8
```

```
import os
```

```
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = StartNewPipelineRequest()
        request.pipeline_id = "{pipeline_id}"
        listBuildParamsbody = [
            StartPipelineBuildParams(
                name="ServiceName",
                value="pipeline-Test"
            ),
            StartPipelineBuildParams(
                name="version",
                value="1.0.0"
            )
        ]
        request.body = StartPipelineParameters(
            build_params=listBuildParamsbody
        )
        response = client.start_new_pipeline(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

Start a pipeline.

Set the startup parameters to ServiceName:pipeline-Test and version:1.0.0.

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")
```

```
auth := basic.NewCredentialsBuilder().
    WithAk(ak).
    WithSk(sk).
    Build()

client := codeartspipeline.NewCodeArtsPipelineClient(
    codeartspipeline.CodeArtsPipelineClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.StartNewPipelineRequest{}
request.PipelineId = "{pipeline_id}"
var listBuildParamsbody = []model.StartPipelineBuildParams{
    {
        Name: "ServiceName",
        Value: "pipeline-Test",
    },
    {
        Name: "version",
        Value: "1.0.0",
    },
}
request.Body = &model.StartPipelineParameters{
    BuildParams: &listBuildParamsbody,
}
response, err := client.StartNewPipeline(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.13.4 Stopping a Pipeline

Function

This API is used to stop a pipeline.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v3/pipelines/{pipeline_id}/stop

Table 4-1013 Path Parameters

Parameter	Mandatory	Type	Description
pipeline_id	Yes	String	Pipeline ID.

Table 4-1014 Query Parameters

Parameter	Mandatory	Type	Description
build_id	Yes	String	Execution ID.

Request Parameters

Table 4-1015 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token .

Response Parameters

Status code: 200

Table 4-1016 Response body parameters

Parameter	Type	Description
pipeline_id	String	Pipeline ID.

Parameter	Type	Description
pipeline_name	String	Pipeline name.

Status code: 400

Table 4-1017 Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

POST https://{endpoint}/v3/pipelines/8025ba36a87a4dd5af496708c2961817/stop?build_id=1

Example Responses

Status code: 200

OK

```
{
  "pipeline_id" : "8025ba36a87a4dd5af496708c2961817",
  "pipeline_name" : "pipeline-23"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;
```

```
public class StopPipelineNewSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        StopPipelineNewRequest request = new StopPipelineNewRequest();
        request.withPipelineId("{pipeline_id}");
        try {
            StopPipelineNewResponse response = client.stopPipelineNew(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.getenv("CLOUD_SDK_AK")
    sk = os.getenv("CLOUD_SDK_SK")

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = StopPipelineNewRequest()
        request.pipeline_id = "{pipeline_id}"
        response = client.stop_pipeline_new(request)
        print(response)
```

```
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.StopPipelineNewRequest{}
    request.PipelineId = "{pipeline_id}"
    response, err := client.StopPipelineNew(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized

Status Code	Description
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.13.5 Obtaining Pipeline Statuses in Batches

Function

This API is used to obtain pipeline statuses and stage information.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v3/pipelines/status

Table 4-1018 Query Parameters

Parameter	Mandatory	Type	Description
pipeline_ids	Yes	String	ID of the pipeline whose status is to be obtained. IDs are separated by commas (,).

Request Parameters

Table 4-1019 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token .

Response Parameters

Status code: 200

Table 4-1020 Response body parameters

Parameter	Type	Description
[items]	Array of PipelineExecuteStates objects	Pipeline execution result.

Table 4-1021 PipelineExecuteStates

Parameter	Type	Description
result	String	Pipeline execution result. The value can be success , error , or aborted .
status	String	Pipeline execution status.
stages	Array of Stages objects	Stage execution status.
executor	String	Executor.
pipeline_name	String	Pipeline name.
pipeline_id	String	Pipeline ID.
build_id	String	Pipeline execution ID.
detail_url	String	URL of the pipeline details page.
modify_url	String	URL of the pipeline editing page.
start_time	String	Execution start time.
end_time	String	Execution end time.

Table 4-1022 Stages

Parameter	Type	Description
result	String	Execution result of a stage. The value can be success , error , or aborted .
status	String	Stage execution status. The value can be waiting , running , verifying , suspending , or completed .
name	String	Stage name.
parameters	Object	Stage running parameters.
order	Integer	Stage sequence.
dsl_method	String	Stage type.

Parameter	Type	Description
display_name	String	Stage display name.

Status code: 400

Table 4-1023 Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

```
GET https://{endpoint}/v3/pipelines/status?  
pipeline_ids=8025ba36a87a4dd5af496708c2961817,413937e669914f95bed293617886c6c1
```

Example Responses

Status code: 200

OK

```
[ {  
  "result" : "error",  
  "status" : "completed",  
  "stages" : [ {  
    "result" : "success",  
    "status" : "completed",  
    "name" : "initial",  
    "parameters" : null,  
    "order" : 1,  
    "dsl_method" : "initial",  
    "display_name" : "Source code"  
  }, {  
    "result" : "success",  
    "status" : "completed",  
    "name" : "state_3",  
    "parameters" : null,  
    "order" : 2,  
    "dsl_method" : "build",  
    "display_name" : "Build"  
  } ],  
  "executor" : "executor",  
  "pipeline_name" : "Do not delete the PipelineSvc test._Continue the test.",  
  "pipeline_id" : "92a65e2337174fabdbbccda97ab7ffad",  
  "detail_url" : "https://example.com",
```

```
"modify_url" : "https://example.com",  
"start_time" : "2022-09-09 00:00:00",  
"end_time" : "2022-09-09 00:00:24",  
"build_id" : "25"  
}]
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;  
  
import com.huaweicloud.sdk.core.auth.ICredential;  
import com.huaweicloud.sdk.core.auth.BasicCredentials;  
import com.huaweicloud.sdk.core.exception.ConnectionException;  
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;  
import com.huaweicloud.sdk.core.exception.ServiceResponseException;  
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;  
import com.huaweicloud.sdk.codeartspipeline.v2.*;  
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;  
  
public class BatchShowPipelinesStatusSolution {  
  
    public static void main(String[] args) {  
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great  
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or  
        // environment variables and decrypted during use to ensure security.  
        // In this example, AK and SK are stored in environment variables for authentication. Before running  
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
        String ak = System.getenv("CLOUD_SDK_AK");  
        String sk = System.getenv("CLOUD_SDK_SK");  
  
        ICredential auth = new BasicCredentials()  
            .withAk(ak)  
            .withSk(sk);  
  
        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()  
            .withCredential(auth)  
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))  
            .build();  
        BatchShowPipelinesStatusRequest request = new BatchShowPipelinesStatusRequest();  
        try {  
            BatchShowPipelinesStatusResponse response = client.batchShowPipelinesStatus(request);  
            System.out.println(response.toString());  
        } catch (ConnectionException e) {  
            e.printStackTrace();  
        } catch (RequestTimeoutException e) {  
            e.printStackTrace();  
        } catch (ServiceResponseException e) {  
            e.printStackTrace();  
            System.out.println(e.getHttpStatusCode());  
            System.out.println(e.getRequestId());  
            System.out.println(e.getErrorCode());  
            System.out.println(e.getErrMsg());  
        }  
    }  
}
```

Python

```
# coding: utf-8  
  
import os  
from huaweicloudsdkcore.auth.credentials import BasicCredentials
```

```
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = BatchShowPipelinesStatusRequest()
        response = client.batch_show_pipelines_status(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.BatchShowPipelinesStatusRequest{}
    response, err := client.BatchShowPipelinesStatus(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

```
}  
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.13.6 Deleting a Pipeline

Function

This API is used to delete a pipeline based on the pipeline ID.

Calling Method

For details, see [Calling APIs](#).

URI

DELETE /v3/pipelines/{pipeline_id}

Table 4-1024 Path Parameters

Parameter	Mandatory	Type	Description
pipeline_id	Yes	String	ID of the pipeline to be deleted.

Request Parameters

Table 4-1025 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token .

Response Parameters

Status code: 200

Table 4-1026 Response body parameters

Parameter	Type	Description
pipeline_id	String	Pipeline ID.
pipeline_name	String	Pipeline name.

Status code: 400

Table 4-1027 Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

```
DELETE https://{endpoint}/v3/pipelines/8025ba36a87a4dd5af496708c2961817
```

Example Responses

Status code: 200

OK

```
{
  "pipeline_id" : "eafaff0bf9094d3d8456d13dddf67b40",
  "pipeline_name" : "pipeline-test"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class RemovePipelineSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        RemovePipelineRequest request = new RemovePipelineRequest();
        request.withPipelineId("{pipeline_id}");
        try {
            RemovePipelineResponse response = client.removePipeline(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8
```

```
import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = RemovePipelineRequest()
        request.pipeline_id = "{pipeline_id}"
        response = client.remove_pipeline(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.RemovePipelineRequest{}
    request.PipelineId = "{pipeline_id}"
    response, err := client.RemovePipeline(request)
    if err == nil {
```



```
    fmt.Printf("%+v\n", response)
  } else {
    fmt.Println(err)
  }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.13.7 Obtaining the Pipeline List

Function

This API is used to obtain the pipeline list.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v3/pipelines/list

Request Parameters

Table 4-1028 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. Obtain a token by calling the IAM API for obtaining a user token .

Table 4-1029 Request body parameters

Parameter	Mandatory	Type	Description
pipeline_name	No	String	Definition: Pipeline name. Fuzzy match by name. Constraints: N/A Value range: N/A Default value: N/A
project_ids	No	String	Definition: (Optional) Project ID. If there are multiple project IDs, separate them with commas (,). The number of IDs ranges from 0 to 10. If this parameter is specified, the pipeline list of the corresponding project is obtained. If not, the pipeline list of all projects on which the user has permission is obtained. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
creator_ids	No	String	Definition: (Optional) Creator ID. If there are multiple values, separate them with commas (,). The number of IDs ranges from 0 to 10. Constraints: N/A Value range: N/A Default value: N/A
executor_ids	No	String	Definition: ID of the user who executes the pipeline. (Optional) If there are multiple values, separate them with commas (,). The number of IDs ranges from 0 to 10. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
status	No	String	Definition: Pipeline running status. Constraints: N/A Value range: • waiting: The pipeline is waiting to begin. • running: The pipeline is being executed. • verifying: This pipeline is to be reviewed. • suspending: The pipeline is suspended. • completed: The execution is completed. Default value: N/A
outcome	No	String	Definition: Pipeline execution result. Constraints: N/A Value range: • success: The execution is successful. • error: The execution failed. • aborted: The execution is aborted. Default value: N/A
sort_key	No	String	Definition: (Optional) Field for sorting. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
sort_dir	No	String	Definition: Sorting method. Constraints: N/A Value range: • asc: by sorting field in ascending order. • desc: by sorting field in descending order. Default value: N/A
git_url	No	String	Definition: Code repository address. Only CodeArts Repo repositories are supported, for example, git@codehub.XXX.git . Constraints: N/A Value range: N/A Default value: N/A
offset	No	Integer	Definition: Offset where the query starts. Constraints: N/A Value range: The offset value must be no less than 0. Default value: N/A

Parameter	Mandatory	Type	Description
limit	No	Integer	Definition: Number of records of each query. Constraints: N/A Value range: 10–50. Default value: 10.

Response Parameters

Status code: 200

Table 4-1030 Response body parameters

Parameter	Type	Description
offset	Integer	Definition: Offset where the query starts. Value range: The value is no less than 0.
limit	Integer	Definition: Number of records of each query. Value range: The value is no less than 0.
total	Integer	Definition: Total number of items. Value range: The value is no less than 0.
result	Array of PipelineBasicInfo objects	Definition: Pipeline list. Value range: N/A

Table 4-1031 PipelineBasicInfo

Parameter	Type	Description
project_id	String	Definition: Project ID. Value range: The value consists of 32 characters, including digits and letters.
project_name	String	Definition: Project name. Value range: N/A
pipeline_id	String	Definition: Pipeline ID. Value range: The value consists of 32 characters, including digits and letters.
pipeline_name	String	Definition: Pipeline name. Value range: N/A
creator_id	String	Definition: Pipeline creator ID. Value range: The value consists of 32 characters, including digits and letters.
creator_name	String	Definition: Pipeline creator name. Value range: N/A
executor_id	String	Definition: ID of the user who executes the pipeline. Value range: The value consists of 32 characters, including digits and letters.

Parameter	Type	Description
executor_name	String	Definition: Name of the user who executes the pipeline. Value range: N/A
start_time	String	Definition: Start time. Value range: N/A
create_time	String	Definition: Creation time. Value range: N/A
watched	String	Definition: Whether the user favorites the pipeline. Value range: • true: The pipeline is favorited. • false: The pipeline is not favorited.

Status code: 400

Table 4-1032 Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

This API is used to obtain the pipeline list.

Example: The project ID is e12ed176898d4841aa9881fe9b933c87 and the creator ID is 847a5317086c41798469d0868535943a. Pipelines are sorted by pipeline name in descending order.

POST https://{endpoint}/v3/pipelines/list

```
{
  "pipeline_name" : "",
  "project_ids" : "e12ed176898d4841aa9881fe9b933c87",
  "creator_ids" : "847a5317086c41798469d0868535943a",
  "executor_ids" : "847a5317086c41798469d0868535943a",
  "status" : "waiting,running,verifying,handling,suspending,completed",
  "outcome" : "error,success,aborted",
  "sort_key" : "pipeline_name",
  "sort_dir" : "desc",
  "git_url" : "",
  "offset" : 4,
  "limit" : 10
}
```

Example Responses

Status code: 200

OK

```
{
  "offset" : 0,
  "limit" : 10,
  "total" : 88,
  "result" : [ {
    "project_id" : "e12ed176898d4841aa9881fe9b933c87",
    "project_name" : "Pipeline_Beta_Automatic Test",
    "pipeline_id" : "d33f98177c3e44f8841b005e1badcaed",
    "pipeline_name" : "Ma Yunduo Cang",
    "creator_id" : "847a5317086c41798469d0868535943a",
    "creator_name" : "Big beta test account",
    "executor_id" : "847a5317086c41798469d0868535943a",
    "executor_name" : "Big beta test account",
    "start_time" : "2022-09-08 17:08:02",
    "create_time" : "2022-07-28 17:02:11",
    "watched" : "true"
  }, {
    "project_id" : "e12ed176898d4841aa9881fe9b933c87",
    "project_name" : "Pipeline_Beta_Automatic Test",
    "pipeline_id" : "2ec08a45031c4d2896292a48b7fb1a30",
    "pipeline_name" : "Dedicated Test for Access Control_Do Not Delete",
    "creator_id" : "847a5317086c41798469d0868535943a",
    "creator_name" : "Big beta test account",
    "executor_id" : "847a5317086c41798469d0868535943a",
    "executor_name" : "Big beta test account",
    "start_time" : "2022-09-08 16:52:03",
    "create_time" : "2020-10-29 17:05:02",
    "watched" : "true"
  } ]
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

This API is used to obtain the pipeline list.

Example: The project ID is e12ed176898d4841aa9881fe9b933c87 and the creator ID is 847a5317086c41798469d0868535943a. Pipelines are sorted by pipeline name in descending order.

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class ListPipelineSimpleInfoSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();

        ListPipelineSimpleInfoRequest request = new ListPipelineSimpleInfoRequest();
        ListPipelineSimpleInfoRequestBody body = new ListPipelineSimpleInfoRequestBody();
        body.withLimit(10);
        body.withOffset(4);
        body.withGitUrl("");
        body.withSortDir("desc");
        body.withSortKey("pipeline_name");
        body.withOutcome("error,success,aborted");
        body.withStatus("waiting,running,verifying,handling,suspending,completed");
        body.withExecutorIds("847a5317086c41798469d0868535943a");
        body.withCreatorIds("847a5317086c41798469d0868535943a");
        body.withProjectIds("e12ed176898d4841aa9881fe9b933c87");
        body.withPipelineName("");
        request.withBody(body);
        try {
            ListPipelineSimpleInfoResponse response = client.listPipelineSimpleInfo(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

This API is used to obtain the pipeline list.

Example: The project ID is e12ed176898d4841aa9881fe9b933c87 and the creator ID is 847a5317086c41798469d0868535943a. Pipelines are sorted by pipeline name in descending order.

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListPipelineSimpleInfoRequest()
        request.body = ListPipelineSimpleInfoRequestBody(
            limit=10,
            offset=4,
            git_url="",
            sort_dir="desc",
            sort_key="pipeline_name",
            outcome="error,success,aborted",
            status="waiting,running,verifying,handling,suspending,completed",
            executor_ids="847a5317086c41798469d0868535943a",
            creator_ids="847a5317086c41798469d0868535943a",
            project_ids="e12ed176898d4841aa9881fe9b933c87",
            pipeline_name=""
        )
        response = client.list_pipeline_simple_info(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

This API is used to obtain the pipeline list.

Example: The project ID is e12ed176898d4841aa9881fe9b933c87 and the creator ID is 847a5317086c41798469d0868535943a. Pipelines are sorted by pipeline name in descending order.

```
package main

import (
    "fmt"
```

```
"github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
"github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListPipelineSimpleInfoRequest{}
    limitListPipelineSimpleInfoRequestBody := int32(10)
    offsetListPipelineSimpleInfoRequestBody := int32(4)
    gitUrlListPipelineSimpleInfoRequestBody := ""
    sortDirListPipelineSimpleInfoRequestBody := "desc"
    sortKeyListPipelineSimpleInfoRequestBody := "pipeline_name"
    outcomeListPipelineSimpleInfoRequestBody := "error,success,aborted"
    statusListPipelineSimpleInfoRequestBody := "waiting,running,verifying,handling,suspending,completed"
    executorIdsListPipelineSimpleInfoRequestBody := "847a5317086c41798469d0868535943a"
    creatorIdsListPipelineSimpleInfoRequestBody := "847a5317086c41798469d0868535943a"
    projectIdsListPipelineSimpleInfoRequestBody := "e12ed176898d4841aa9881fe9b933c87"
    pipelineNameListPipelineSimpleInfoRequestBody := ""
    request.Body = &model.ListPipelineSimpleInfoRequestBody{
        Limit: &limitListPipelineSimpleInfoRequestBody,
        Offset: &offsetListPipelineSimpleInfoRequestBody,
        GitUrl: &gitUrlListPipelineSimpleInfoRequestBody,
        SortDir: &sortDirListPipelineSimpleInfoRequestBody,
        SortKey: &sortKeyListPipelineSimpleInfoRequestBody,
        Outcome: &outcomeListPipelineSimpleInfoRequestBody,
        Status: &statusListPipelineSimpleInfoRequestBody,
        ExecutorIds: &executorIdsListPipelineSimpleInfoRequestBody,
        CreatorIds: &creatorIdsListPipelineSimpleInfoRequestBody,
        ProjectIds: &projectIdsListPipelineSimpleInfoRequestBody,
        PipelineName: &pipelineNameListPipelineSimpleInfoRequestBody,
    }
    response, err := client.ListPipelineSimpleInfo(request)
    if err == nil {
        fmt.Printf("%v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.13.8 Obtaining the Pipeline Status

Function

This API is used to obtain the pipeline status, stage, and job information.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v3/pipelines/{pipeline_id}/status

Table 4-1033 Path Parameters

Parameter	Mandatory	Type	Description
pipeline_id	Yes	String	ID of the pipeline whose status is to be obtained.

Table 4-1034 Query Parameters

Parameter	Mandatory	Type	Description
build_id	No	String	Execution ID of the pipeline whose status is to be obtained.

Request Parameters

Table 4-1035 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token .

Response Parameters

Status code: 200

Table 4-1036 Response body parameters

Parameter	Type	Description
pipeline_id	String	Pipeline ID.
pipeline_name	String	Pipeline name.
executor	String	Executor.
build_id	String	Pipeline execution ID.
start_time	String	Execution start time.
end_time	String	Execution end time.
parameters	Array of PipelineParameter objects	Pipeline parameters.
states	Array of PipelineStateStatus objects	Pipeline execution status.
elapsed_time	String	Execution duration.
status	String	Pipeline running status. The value can be waiting , running , verifying , suspending , and completed .
outcome	String	Pipeline execution result. The value can be success , error , or aborted .
detail_url	String	URL of the pipeline details page.

Table 4-1037 PipelineParameter

Parameter	Type	Description
name	String	Parameter name.
value	String	Parameter value.

Table 4-1038 PipelineStateStatus

Parameter	Type	Description
id	String	Stage or job ID.
name	String	Stage or job name.
type	String	Type (stage/job)
start_time	String	Execution start time.
end_time	String	Execution end time.
elapsed_time	String	Running duration.
status	String	Running status. The value can be waiting , running , verifying , suspending , or completed .
outcome	String	Running result. The value can be success , error , or aborted .
error_code	String	Error code.
error_msg	String	Error message.
children	Array of PipelineStateStatus objects	Subtask running information (empty for a task)
detail_url	String	URL of job running records.

Status code: 400**Table 4-1039** Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A

Parameter	Type	Description
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

GET https://{endpoint}/v3/pipelines/8025ba36a87a4dd5af496708c2961817/status?build_id=2

Example Responses

Status code: 200

OK

```
{
  "executor" : null,
  "status" : null,
  "outcome" : null,
  "pipeline_id" : "75c562a081574ff28224fb2c123a0643",
  "pipeline_name" : "pipeline-1185523_Cx2Ur",
  "build_id" : null,
  "start_time" : "2022-04-01 19:44:16",
  "end_time" : null,
  "elapsed_time" : null,
  "detail_url" : "https://example.com",
  "parameters" : [ {
    "name" : "seviceName",
    "value" : "pipeline-23"
  }, {
    "name" : "codeBranch",
    "value" : "master"
  } ],
  "states" : [ {
    "id" : "state_4",
    "name" : "Build",
    "type" : "stage",
    "status" : null,
    "outcome" : null,
    "children" : [ {
      "id" : "Task_1",
      "name" : "Manual review",
      "type" : "task",
      "status" : null,
      "outcome" : null,
      "start_time" : null,
      "end_time" : null,
      "elapsed_time" : null,
      "error_code" : null,
      "error_msg" : null,
      "detail_url" : null
    } ],
    "start_time" : null,
    "end_time" : null,
    "elapsed_time" : null
  } ]
}
```


Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.13.9 Obtaining the Pipeline Execution Status in a Project

Function

This API is used to obtain the pipeline execution status in a project.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v3/pipelines/build-result

Table 4-1040 Query Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Parameter	Mandatory	Type	Description
start_date	Yes	String	Definition: Start date. Constraints: The interval between the start date and end date cannot exceed one month. The start date is included. Value range: N/A Default value: N/A
end_date	Yes	String	Definition: Start date. Constraints: The interval between the start date and end date cannot exceed one month. The start date is included. Value range: N/A Default value: N/A
offset	Yes	Integer	Definition: Offset where the query starts. Constraints: N/A Value range: The value is no less than 0. Default value: N/A
limit	Yes	Integer	Definition: Number of records of each query. Constraints: N/A Value range: The value is no less than 0. Default value: N/A

Request Parameters

Table 4-1041 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API for obtaining a user token . Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-1042 Response body parameters

Parameter	Type	Description
offset	Integer	Definition: Offset where the query starts. Value range: The offset value must be no less than 0.
limit	Integer	Definition: Number of records of each query. Value range: The value is no less than 0.
total	Integer	Definition: Total number of items. Value range: N/A

Parameter	Type	Description
build_results	Array of PipelineBuildResult objects	Definition: Execution status list. Value range: N/A

Table 4-1043 PipelineBuildResult

Parameter	Type	Description
build_id	String	Definition: Pipeline execution ID. Value range: N/A
elapse_time	String	Definition: Running duration, in milliseconds. Value range: N/A
end_time	String	Definition: Execution end time. Value range: N/A
outcome	String	Definition: Running result. Value range: • success: The execution is successful. • error: The execution failed. • aborted: The execution is aborted.
pipeline_id	String	Definition: Pipeline ID. Value range: The value consists of 32 characters, including digits and letters.
pipeline_name	String	Definition: Pipeline name. Value range: N/A

Parameter	Type	Description
start_time	String	Definition: Execution start time. Value range: N/A
status	String	Definition: Running status. Value range: • waiting: The pipeline is waiting to begin. • running: The pipeline is being executed. • verifying: This pipeline is to be reviewed. • suspending: The pipeline is suspended. • completed: The execution is completed.

Status code: 400

Table 4-1044 Response body parameters

Parameter	Type	Description
error_msg	String	Parameter description: Error message. Value range: N/A
error_code	String	Parameter description: Error code. Value range: N/A

Example Requests

```
GET https://{endpoint}/v3/pipelines/build-result?
project_id=8025ba36a87a4885af496708c2961817&start_date=2020-07-01&end_date=2020-07-31&offset=0&
limit=10
```

Example Responses

Status code: 200

OK

```
{
  "offset" : 0,
  "limit" : 10,
  "total" : 29,
  "build_results" : [ {
    "status" : "completed",
    "outcome" : "success",
    "pipeline_id" : "fbc06e5655764f049f4d988bd2941279",
    "pipeline_name" : "API test pipeline_YN96I241",
    "build_id" : "12",
    "start_time" : "2021-08-10 00:00:01",
    "end_time" : "2021-08-10 00:00:02",
    "elapse_time" : "917"
  } ]
}
```

Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

Error Codes

See [Error Codes](#).

4.14 GitCode Pipeline

4.14.1 Stopping a GitCode Pipeline

Function

This API is used to stop a GitCode pipeline.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v6/{domain_id}/api/pac/pipelines/actions/{pipeline_id}/{pipeline_run_id}/stop

Table 4-1045 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including only digits and letters. Default value: N/A
pipeline_run_id	Yes	String	Definition: Pipeline run ID. The return value of the API for running a pipeline is the pipeline run ID. Constraints: N/A Value range: The value consists of 32 characters, including only digits and letters. Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-1046 Response body parameters

Parameter	Type	Description
success	Boolean	Definition: Whether the calling is successful. Value range: true: The calling is successful. false: The calling fails.

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.14.2 Querying the Running Details of a GitCode Pipeline

Function

This API is used to query the running details of a GitCode pipeline.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v6/{domain_id}/api/pac/pipelines/actions/{pipeline_id}/{pipeline_run_id}

Table 4-1047 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including only digits and letters. Default value: N/A
pipeline_run_id	Yes	String	Definition: Pipeline run ID. The return value of the API for running a pipeline is the pipeline run ID. Constraints: N/A Value range: The value consists of 32 characters, including only digits and letters. Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-1048 Response body parameters

Parameter	Type	Description
pipelineId	String	Definition: Pipeline ID. Value range: The value consists of 32 characters, including digits and letters.
pipelineName	String	Definition: Pipeline name. Value range: N/A
pipelineRunId	String	Definition: Pipeline running ID. Value range: The value consists of 32 characters, including digits and letters.
pipelineRunName	String	Definition: Pipeline running name. Value range: N/A
startTime	String	Definition: Start time of pipeline running. Value range: N/A
endTime	String	Definition: End time of pipeline running. Value range: N/A
status	String	Definition: Pipeline running status. Value range: N/A

Parameter	Type	Description
triggerType	String	Definition: Pipeline trigger type. Value range: N/A
actor	String	Definition: User who executes the pipeline. Value range: N/A
runNumber	String	Definition: Pipeline running ID. Value range: N/A
commitId	String	Definition: Code commit ID. Value range: N/A
jobs	Array of PipelineRunJobInfo objects	Definition: Pipeline running job details. Value range: N/A

Table 4-1049 PipelineRunJobInfo

Parameter	Type	Description
name	String	Definition: Job name. Value range: N/A
id	String	Definition: Job ID. Value range: N/A
identifier	String	Definition: Unique identifier of a job. Value range: N/A

Parameter	Type	Description
condition	String	Definition: Condition expression. Value range: N/A
status	String	Definition: Job status. Value range: N/A
startTime	String	Definition: Job start time. Value range: N/A
endTime	String	Definition: Job end time. Value range: N/A
steps	Array of PipelineRunStepInfo objects	Definition: Job steps. Value range: N/A

Table 4-1050 PipelineRunStepInfo

Parameter	Type	Description
name	String	Definition: Step name. Value range: N/A
id	String	Definition: Step ID. Value range: N/A
task	String	Definition: Task name in a step. Value range: N/A

Parameter	Type	Description
status	String	Definition: Step status. Value range: N/A
startTime	String	Definition: Step start time. Value range: N/A
endTime	String	Definition: Step end time. Value range: N/A

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.14.3 Running a GitCode Pipeline

Function

This API is used to run a GitCode pipeline.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v6/{domain_id}/api/pac/pipelines/actions/run

Table 4-1051 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-1052 Request body parameters

Parameter	Mandatory	Type	Description
https_url	No	String	Definition: Trigger URL. Constraints: N/A Value range: N/A Default value: N/A
file_path	No	String	Definition: File storage path. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
file_content	No	String	Definition: File details. Constraints: N/A Value range: N/A Default value: N/A
branch	No	String	Definition: Name of the code source branch. Constraints: N/A Value range: N/A Default value: N/A
encoding	No	String	Definition: File encoding mode. Constraints: N/A Value range: N/A Default value: N/A
tag	No	String	Definition: Code source tag. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
commit_id	No	String	Definition: Commit ID in code source. Constraints: N/A Value range: The value contains 40 characters. Default value: N/A
access_token	No	String	Definition: Token for accessing the code source. Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-1053 Response body parameters

Parameter	Type	Description
pipeline_id	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Value range: The value consists of 32 characters, including only digits and letters.

Parameter	Type	Description
pipeline_run_id	String	Definition: Pipeline run ID. The return value of the API for running a pipeline is the pipeline run ID. Value range: The value consists of 32 characters, including only digits and letters.

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.14.4 Querying GitCode Pipeline Logs

Function

This API is used to query GitCode pipeline logs.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v6/{domain_id}/api/pac/pipelines/actions/{pipeline_id}/{pipeline_run_id}/{job_run_id}/logs

Table 4-1054 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A
pipeline_id	Yes	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including only digits and letters. Default value: N/A
pipeline_run_id	Yes	String	Definition: Pipeline run ID. The return value of the API for running a pipeline is the pipeline run ID. Constraints: N/A Value range: The value consists of 32 characters, including only digits and letters. Default value: N/A

Parameter	Mandatory	Type	Description
job_run_id	Yes	String	Definition: Job run ID. Obtain the ID by calling the API for obtaining the pipeline execution details . <code>JobRun.id</code> indicates job run ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-1055 Request body parameters

Parameter	Mandatory	Type	Description
offset	No	Long	Definition: Offset where the query starts. Constraints: N/A Value range: The offset value must be no less than 0. Default value: N/A
limit	No	Long	Definition: Number of records of each query. Constraints: N/A Value range: The value is no less than 0. Default value: N/A

Response Parameters

Status code: 200

Table 4-1056 Response body parameters

Parameter	Type	Description
has_more	Boolean	Definition: Whether there are more logs. Value range: • true: There are more logs. • false: There are no more logs.
end_offset	Integer	Definition: Log end offset. Value range: N/A
start_offset	Integer	Definition: Log start offset. Value range: N/A
log	String	Definition: Log details. Value range: N/A
location	String	Definition: Location of a log. Value range: N/A

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.14.5 Retrying Running a GitCode Pipeline

Function

This API is used to retry running a GitCode pipeline.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v6/{domain_id}/api/pac/pipelines/actions/rerun

Table 4-1057 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-1058 Request body parameters

Parameter	Mandatory	Type	Description
pipeline_id	No	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . <code>pipelines.pipelineId</code> indicates the pipeline ID. Constraints: N/A Value range: The value consists of 32 characters, including only digits and letters. Default value: N/A
pipeline_run_id	No	String	Definition: Pipeline run ID. The return value of the API for running a pipeline is the pipeline run ID. Constraints: N/A Value range: The value consists of 32 characters, including only digits and letters. Default value: N/A
access_token	No	String	Definition: Authentication token. Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-1059 Response body parameters

Parameter	Type	Description
pipeline_id	String	Definition: Pipeline ID. Obtain the ID by calling the API for querying pipelines . pipelines.pipelineId indicates the pipeline ID. Value range: The value consists of 32 characters, including only digits and letters.
pipeline_run_id	String	Definition: Pipeline run ID. The return value of the API for running a pipeline is the pipeline run ID. Value range: The value consists of 32 characters, including only digits and letters.

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.14.6 Querying GitCode Pipeline Execution Records

Function

This API is used to query GitCode pipeline execution records.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v6/{domain_id}/api/pac/pipelines/actions

Table 4-1060 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-1061 Request body parameters

Parameter	Mandatory	Type	Description
page	No	Long	Definition: Page number for pagination query. Constraints: N/A Value range: The value is greater than 0. Default value: N/A

Parameter	Mandatory	Type	Description
page_size	No	String	Definition: Number of records on each page. Constraints: N/A Value range: The value is fixed at 20 . Default value: N/A
https_url	Yes	String	Definition: Code source address. Constraints: N/A Value range: N/A Default value: N/A
pipeline_name	No	String	Definition: Pipeline name. Constraints: N/A Value range: N/A Default value: N/A
file_path	No	String	Definition: File path. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
pipeline_run_name	No	String	Definition: Name of the pipeline operator. Constraints: N/A Value range: N/A Default value: N/A
event	No	String	Definition: Pipeline trigger type. Constraints: N/A Value range: N/A Default value: N/A
actor	No	String	Definition: Pipeline creator name. Constraints: N/A Value range: N/A Default value: N/A
branch	No	String	Definition: Code source branch. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
status	No	String	Definition: Pipeline running status. Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-1062 Response body parameters

Parameter	Type	Description
total	Long	Definition: Total number of queried pipelines. Value range: N/A
page	Long	Definition: Number of pages for querying pipelines. Value range: N/A
pageSize	Long	Definition: Number of pipelines displayed on a page. Value range: N/A
successTimes	Long	Definition: Time when the pipeline is successfully executed. Value range: N/A

Parameter	Type	Description
failedTimes	Long	Definition: Time when the pipeline fails to run. Value range: N/A
pipelineRuns	Array of PipelineRunActions objects	Definition: Time when the pipeline fails to run. Value range: N/A

Table 4-1063 PipelineRunActions

Parameter	Type	Description
pipeline_id	String	Definition: Pipeline ID. Value range: N/A
pipeline_run_id	String	Definition: Pipeline run ID. Value range: N/A
actor	String	Definition: Pipeline operator. Value range: N/A
pipeline_name	String	Definition: Pipeline name. Value range: N/A
status	String	Definition: Pipeline running status. Value range: N/A
run_number	String	Definition: Pipeline run ID. Value range: N/A

Parameter	Type	Description
event	String	Definition: Pipeline trigger type. Value range: N/A
branch	String	Definition: Code source branch. Value range: N/A
start_time	String	Definition: Time when the pipeline starts to be executed. Value range: N/A
end_time	String	Definition: Time when the pipeline stops running. Value range: N/A
commit_id	String	Definition: Commit record of the code source. Value range: The value contains 40 characters.
pipeline_run_name	String	Definition: Name of the pipeline operator. Value range: N/A

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.14.7 Updating the GitCode pipeline action

Function

This API is used to update the GitCode pipeline action.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v6/{domain_id}/api/pac/pipelines/actions/yml-register

Table 4-1064 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-1065 Request body parameters

Parameter	Mandatory	Type	Description
yaml_file_list	No	Array of ActionsWorkflowYamlChangedDTO objects	Definition: Updated action details. Value range: N/A

Table 4-1066 ActionsWorkflowYamlChangedDTO

Parameter	Mandatory	Type	Description
type	No	String	Definition: Operation type. Constraints: N/A Value range: N/A Default value: N/A
https_url	No	String	Definition: Code source address. Constraints: N/A Value range: N/A Default value: N/A
repo_id	No	String	Definition: Repo code repository ID. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
old_file_path	No	String	Definition: Path of the old file. Constraints: N/A Value range: N/A Default value: N/A
new_file_path	No	String	Definition: Path of the new file. Constraints: N/A Value range: N/A Default value: N/A
file_content	No	String	Definition: File details. Constraints: N/A Value range: N/A Default value: N/A
encoding	No	String	Definition: File code. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
default_branch	No	String	Definition: Default branch of the code source. Constraints: N/A Value range: N/A Default value: N/A
file_commit_id	No	String	Definition: File submission record ID. Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-1067 Response body parameters

Parameter	Type	Description
success	Boolean	Definition: Whether the calling is successful. Value range: • true: The calling is successful. • false: The calling fails.

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.14.8 Querying GitCode Pipeline Events

Function

This API is used to query GitCode pipeline events.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v6/{domain_id}/api/pac/pipelines/actions/events

Table 4-1068 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-1069 Request body parameters

Parameter	Mandatory	Type	Description
https_url	Yes	String	Definition: Address of the code source repository. Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-1070 Response body parameters

Parameter	Type	Description
events	Array of strings	Definition: Trigger type list. Value range: N/A

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.14.9 Querying the GitCode Pipeline Operator

Function

This API is used to query the GitCode pipeline operator.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v6/{domain_id}/api/pac/pipelines/actions/actors

Table 4-1071 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-1072 Request body parameters

Parameter	Mandatory	Type	Description
https_url	Yes	String	Definition: Address of the code source repository. Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-1073 Response body parameters

Parameter	Type	Description
actors	Array of strings	Definition: List of users who trigger the pipeline. Value range: N/A

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.14.10 Querying the GitCode Pipeline Action List

Function

This API is used to query the GitCode pipeline action list.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v6/{domain_id}/api/pac/pipelines/actions/list

Table 4-1074 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Request Parameters

Table 4-1075 Request body parameters

Parameter	Mandatory	Type	Description
pipeline_run_ids	No	Array of strings	Definition: Pipeline run ID list. Constraints: N/A Value range: The value consists of 32 characters, including only digits and letters. Default value: N/A

Response Parameters

Status code: 200

Table 4-1076 Response body parameters

Parameter	Type	Description
pipeline_runs	Array of PipelineRunActions objects	Definition: List of pipeline running details. Value range: N/A

Table 4-1077 PipelineRunActions

Parameter	Type	Description
pipeline_id	String	Definition: Pipeline ID. Value range: N/A
pipeline_run_id	String	Definition: Pipeline run ID. Value range: N/A

Parameter	Type	Description
actor	String	Definition: Pipeline operator. Value range: N/A
pipeline_name	String	Definition: Pipeline name. Value range: N/A
status	String	Definition: Pipeline running status. Value range: N/A
run_number	String	Definition: Pipeline run ID. Value range: N/A
event	String	Definition: Pipeline trigger type. Value range: N/A
branch	String	Definition: Code source branch. Value range: N/A
start_time	String	Definition: Time when the pipeline starts to be executed. Value range: N/A
end_time	String	Definition: Time when the pipeline stops running. Value range: N/A

Parameter	Type	Description
commit_id	String	Definition: Commit record of the code source. Value range: The value contains 40 characters.
pipeline_run_name	String	Definition: Name of the pipeline operator. Value range: N/A

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.14.11 Querying Action Details of a GitCode Pipeline

Function

This API is used to query action details of a GitCode pipeline.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v3/{domain_id}/actions/detail

Table 4-1078 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Definition: Tenant ID. Constraints: N/A Value range: The value consists of 32 characters, including digits and letters. Default value: N/A

Table 4-1079 Query Parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Definition: Extension name. Constraints: N/A Value range: N/A Default value: N/A
version	No	String	Definition: Extension version. Constraints: N/A Value range: N/A Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-1080 Response body parameters

Parameter	Type	Description
full_stage_plugins_item_list	Array of full_stage_plugins_item_list objects	Definition: Result set. Value range: N/A

Table 4-1081 full_stage_plugins_item_list

Parameter	Type	Description
plugins_list	Array of plugins_list objects	Definition: Extension list. Value range: N/A
display_name	String	Definition: Displayed extension name. Value range: N/A
business_type	String	Definition: Extension service type. Value range: N/A
unique_id	String	Definition: Extension ID. Default value: N/A
conditions	Array of strings	Definition: Running conditions. Value range: N/A
addables	Array of addables objects	Definition: Additional attribute. Value range: N/A

Parameter	Type	Description
editable	Boolean	Definition: Editable parameter or not. Value range: • true: editable. • false: not editable.
removable	Boolean	Definition: Removable or not. Value range: • true: removable. • false: not removable.
cloneable	Boolean	Definition: Whether the extension can be cloned. Value range: • true: The extension can be cloned. • false: The extension cannot be cloned.
disabled	Boolean	Definition: Disabled or not. Value range: • true: disabled. • false: not disabled.

Table 4-1082 plugins_list

Parameter	Type	Description
unique_id	String	Definition: ID. Value range: N/A
display_name	String	Definition: Display name. Value range: N/A

Parameter	Type	Description
plugin_name	String	Definition: Extension name. Value range: N/A
disabled	Boolean	Definition: Whether the current extension is disabled for subsequent pipelines. The default value is false . Value range: • true: disabled. • false: not disabled.
db_record_name	String	Definition: Display name of an extension record. Value range: N/A
group_name	String	Definition: Name of the group in a pipeline stage. Value range: N/A
group_type	String	Definition: Group type in a pipeline stage. Value range: N/A
plugin_attribution	String	Definition: Whether the extension is an official one. Value range: N/A
plugin_composition_type	String	Definition: Whether a group consists of multiple steps. Value range: • single: single-step extension. • multi: multi-step extension.

Parameter	Type	Description
runtime_attribute	String	Definition: Running attribute. Value range: • agent: Pipeline agent is required for running. • agentLess: No pipeline agent is required.
all_steps	Array of all_steps objects	Definition: Basic extension list. Value range: N/A
description	String	Definition: Extension description. Value range: N/A
version_attribute	String	Definition: Whether it is a draft extension. Value range: N/A
icon_url	String	Definition: Extension icon URL. Value range: N/A
multi_step_editable	Integer	Definition: Whether steps can be added. The default value is 1 , indicating that steps can be added. Value range: • 0: The steps cannot be added. • 1: You can continue to add steps.
location	String	Definition: Usage position. Value range: N/A

Parameter	Type	Description
publisher_unique_id	String	Definition: Publisher ID. Value range: N/A
manifest_version	String	Definition: Extension version identifier. Value range: N/A
standard	Boolean	Definition: Whether the extension is standardized. Value range: • true: The extension is standardized. • false: The extension is not standardized.

Table 4-1083 all_steps

Parameter	Type	Description
plugin_name	String	Definition: Extension name. Value range: N/A
display_name	String	Definition: Displayed extension name. Value range: N/A
version	String	Definition: Extension version number. Value range: N/A

Table 4-1084 addables

Parameter	Type	Description
additionalProp1	Boolean	Definition: Additional attribute 1. Value range: N/A
additionalProp2	Boolean	Definition: Additional attribute 2. Value range: N/A
additionalProp3	Boolean	Definition: Additional attribute 3. Value range: N/A

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

5 Application Examples

5.1 Example 1: Executing a Pipeline

Scenario

This section shows how to execute pipeline tasks by using APIs.

For details about how to call APIs, see [Calling APIs](#).

Constraints

A pipeline task to be executed has been created in CodeArts Pipeline.

Involved APIs

Use request parameters such as the user token and pipeline ID to [start a pipeline](#).

Procedure

Step 1 Execute a pipeline task.

- API information

URI: POST /v3/pipelines/{pipeline_id}/start

For details about this API, visit [Starting a Pipeline](#).

- Example request

```
POST https://cloudpipeline-ext.ap-southeast-3.myhuaweicloud.com/v3/pipelines/{pipeline_id}/start
```

- Example request body

```
{}
```

- Example response

```
{
  "build_id": "xxx",
  "pipeline_id": "824e784b3f43492e99152a....."
}
```

----End

5.2 Example 2: Stopping a Pipeline

Scenario

This section shows how to stop a pipeline task by pipeline ID by using APIs.

For details about how to call APIs, see [Calling APIs](#).

Constraints

A pipeline exists and is being executed.

Involved APIs

Use the user token and pipeline ID to [stop a pipeline](#).

Procedure

Step 1 Query the build tasks in a specified project.

- API information

URI: POST /v3/pipelines/stop

For details about this API, visit [Stopping a Pipeline](#).

- Example request

```
https://cloudpipeline-ext.ap-southeast-3.myhuaweicloud.com/v3/pipelines/stop?
pipeline_id=824e784b3f43492e99152a.....
```

- Example request body

```
{}
```

- Example response

```
{
  "result": {
    "name": "pipeline-test",
    "pipelineId": "e9bdc806955e48368e3ecbcdf2...."
  },
  "error": null,
  "status": "success"
}
```

----End

5.3 Example 3: Obtain the Pipeline Status

Scenario

This section shows how to obtain a pipeline status by using APIs.

For details about how to call APIs, see [Calling APIs](#).

Constraints

A pipeline task has been created in CodeArts Pipeline.

Involved APIs

Use request parameters such as the user token and pipeline ID to [obtain the pipeline status](#).

Procedure

Step 1 Query the pipeline task execution status.

- API information

URI: POST v3/pipelines/{pipeline_id}/status

For details about this API, visit [Obtaining the Pipeline Status](#).

- Example request

GET https://cloudpipeline-ext.ap-southeast-3.myhuaweicloud.com/v3/pipelines/{pipeline_id}/status

- Example response

```
{
  "executor": "xxx",
  "status": "completed",
  "outcome": "success",
  "parameters": [
    {
      "name": "serviceName",
      "value": "Test"
    },
    {
      "name": "codeBranch",
      "value": "master"
    },
    {
      "name": "releaseVersion",
      "value": "1.0.0"
    }
  ],
  "states": [
    {
      "id": "state_3",
      "name": "Source code",
      "type": "stage",
      "status": "completed",
      "outcome": "success",
      "children": [],
      "start_time": "2020-09-01 17:13:18",
      "end_time": "2020-09-01 17:13:18",
      "elapsed_time": "0"
    },
    {
      "id": "state_4",
      "name": "Build",
      "type": "stage",
      "status": "completed",
      "outcome": "success",
      "children": [
        {
          "id": "Task_1",
          "name": "Default task",
          "type": "task",
          "status": "completed",
          "outcome": "success",
          "start_time": "2020-09-01 17:13:18",
          "end_time": "2020-09-01 17:16:22",
          "elapsed_time": "183",
          "error_code": null,
          "error_msg": null,
          "detail_url": null
        }
      ]
    }
  ]
}
```

```
    ],
    "start_time": "2020-09-01 17:13:18",
    "end_time": "2020-09-01 17:16:22",
    "elapsed_time": "183"
  },
  {
    "id": "state_5",
    "name": "Release repo",
    "type": "stage",
    "status": "completed",
    "outcome": "success",
    "children": [],
    "start_time": "2020-09-01 17:16:22",
    "end_time": "2020-09-01 17:16:22",
    "elapsed_time": "0"
  }
],
"pipeline_id": "824e784b3f43492e99152a4....",
"pipeline_name": "pipeline_test",
"build_id": "xxxx",
"start_time": "2020-09-01 17:13:18",
"end_time": "2020-09-01 17:16:22",
"elapsed_time": "184",
"detail_url": "https://xxxxxx/pipeline/detail/824e784b3f43492e99152a....."
}
```

----End

6 Appendixes

6.1 Status Code

Table 6-1 Status code

Status Code	Message	Description
100	Continue	The client should continue with its request. This interim response is used to inform the client that the initial part of the request has been received and has not yet been rejected by the server.
101	Switching Protocols	Switch protocols. A protocol can only be switched to an advanced protocol. For example, the protocol in use is switched to a later version of HTTP.
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 server successfully processed the request, but is returning information that may be from another source.
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 has fulfilled the request, but the requester is required to reset the content.

Status Code	Message	Description
206	Partial Content	The server has fulfilled the partial GET request for the resource.
300	Multiple Choices	There are multiple choices for a requested resource. A list of resource characteristics and addresses is returned for the client such as a browser to choose from.
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 authentication information provided by the client 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 method specified in the request is not allowed for the requested resource. The client should modify the request instead of re-initiating it.

Status Code	Message	Description
406	Not Acceptable	The server cannot implement the request based on the content characteristics of the request.
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 request timed out. 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 cannot be found. 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 header field.
414	Request-URI Too Large	The request URI is too long for the server to process.
415	Unsupported Media Type	The server does not support the media type 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	Message	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 repeat requests after the time specified in the Retry-After header of the response expires.
500	InternalServerError	The server is able to receive the request but it cannot understand the request.
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 server could not return a timely response. 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.

6.2 Error Code

If an error occurs in API calling and no result is returned, you can locate the cause based on the error code of each API. If an error occurs during API calling, HTTP status code 4xx or 5xx is returned. The returned message body contains the specific error code and error information. If you are unable to identify the cause of an error, contact customer service and provide the error code so that we can help you solve the problem as soon as possible.

Error Response Body Format

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": "Insufficient permission",
  "error_code": "DEVCP.00014031"
}
```

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

Error Code Description

If an error code starting with **APIGW** is returned after you call an API, rectify the fault by referring to the instructions provided in [Error Codes](#).

Stat us Code	Error Code	Error Message	Description	Solution
200	DEVCP.000 14031	Insufficient permissions.	Insufficient permissions to create a pipeline.	Check whether you have the permission to create a pipeline.
200	DEVCP.000 12002	The related record does not exist in the database.	instancetype does not exist in the database.	Check whether the request parameter instancetype is correct.
500	DEVCP.000 10000	Unknown service error.	System internal error.	Contact the administrator.
200	DEVCP.000 14004	Invalid parameter.	Invalid request parameter or request body format.	Check the request parameters or request body.
400	DEVCP.000 21400	Incorrect settings. Please check.	Incorrect settings. Please check.	Check whether the request parameter is correct or invalid.
400	DEVCP.000 21008	The service template is not supported.	The service template is not supported.	Check whether the parameters are correctly specified.
400	DEVCP.000 21006	Template not found.	The template does not exist in the database.	Check whether the template ID is correct.
401	DEVCP.000 21018	The user was not authorized to perform the operation.	The user does not have the creation permissions.	Check whether the user has the creation permission.
500	DEVCP.000 20500	Network busy. Try again later.	The system is abnormal.	Contact the administrator.
500	COCT.007 0003	Frequent access. Please wait.	Frequent access. Please wait.	Frequent access. Please wait.
500	COCT.007 0500	Network busy. Try again later.	Network busy. Try again later.	Network busy. Try again later.
400	COCT.007 0026	This agent already exists. Check the status.	This agent already exists. Check the status.	This agent already exists. Check the status.

Stat us Code	Error Code	Error Message	Description	Solution
404	COCT.007 0010	The resource pool not found.	The resource pool selected for the registered agent does not exist.	The resource pool selected for the registered agent does not exist. Check whether the resource pool exists.
404	COCT.007 0040	The current agent version is not the latest.	The current agent version is not the latest.	The current agent version is not the latest.
401	COCT.007 0009	Insufficient permissions.	The selected resource pool does not have the operation permission. Contact the resource pool administrator to add the permission.	The selected resource pool does not have the operation permission. Contact the resource pool administrator to add the permission.
400	COCT.007 0037	Invalid label.	Invalid label.	The label parameter is invalid. Enter a valid value.
500	COCT.007 0006	Failed to register the agent. Try again later.	Failed to register the agent. Try again later.	Failed to register the agent. Try again later.
400	COCT.007 0026	This agent already exists. Check the status.	The registered agent already exists. Check it in the resource pool.	The registered agent already exists. Check it in the resource pool.
400	COCT.007 0038	The maximum number of pools of the account has been reached.	The maximum number of pools of the account has been reached.	The number of resource pools of the tenant exceeds the maximum number. Check the number of resource pools of the current tenant.
400	COCT.007 0039	The maximum number of agents in the pool has been reached.	The maximum number of agents in the pool has been reached.	Check the number of agents in the current resource pool.

Status Code	Error Code	Error Message	Description	Solution
500	COCT.0070008	Failed to delete the agent.	Failed to delete the agent.	Check whether the agent does not exist.
500	COCT.0070019	Failed to access the cluster control.	Failed to access the CC service. Try again later.	Failed to access the CC service. Try again later.
400	COCT.0070400	The pool ID can contain 32 characters that consist of digits and letters.	The pool ID can contain 32 characters that consist of digits and letters.	The resource pool ID can contain only 32 characters that consist of digits and letters.
400	COCT.0070400	The agent name can contain 1 to 50 characters that consist of digits, letters, dots (.), underscores (_), and hyphens (-).	The agent name can contain 1 to 50 characters that consist of digits, letters, dots (.), underscores (_), and hyphens (-).	The agent name can contain 1 to 50 characters that consist of digits, letters, dots (.), underscores (_), and hyphens (-). Enter a correct value.
404	COCT.0070007	The agent has been deleted and does not exist.	The agent has been deleted and does not exist.	The agent has been deleted and does not exist. Please check.
400	COCT.0070021	The agent is offline. Register it again.	The agent is offline. Register it again.	The agent is offline. Register it again.
200	DEVPIPE.00011104	The maximum number of concurrent executions in a single pipeline is {0}.	The maximum number of concurrent executions in a single pipeline is {0}.	The maximum number of concurrent executions in a single pipeline is {0}.
200	DEVPIPE.00011105	The maximum number of concurrent pipeline executions of a tenant is {0}.	The maximum number of concurrent pipeline executions of a tenant is {0}.	The maximum number of concurrent pipeline executions of a tenant is {0}.
200	DEVPIPE.00011127	The system is busy. Try again later.	The system is busy. Try again later.	Contact the administrator.

Stat us Code	Error Code	Error Message	Description	Solution
200	DEVPIPE.00011129	The selected task cannot be empty.	The selected task cannot be empty.	Check whether the task parameters are correct.
200	DEVPIPE.00011132	The selected task does not exist.	The selected task does not exist.	The selected task does not exist.
200	DEVPIPE.00011301	No permission.	No permission.	Check whether you have the permission required to perform this operation.
200	DEVPIPE.00011401	Pipeline does not exist.	Pipeline does not exist.	Pipeline does not exist.
200	DEVPIPE.00011408	Pipeline is running.	The pipeline is running and cannot be deleted.	Wait until the running is complete.

6.3 Obtaining a Project ID

6.3.1 Obtaining a CodeArts Project ID

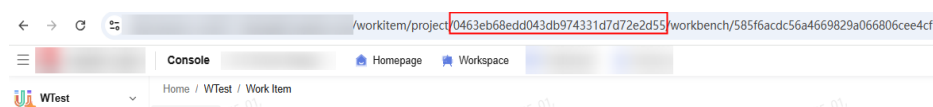
Obtaining a Project ID from a URL

Step 1 [Log in to the Huawei Cloud console](#) with your Huawei Cloud account.

Step 2 Click  in the upper left corner and choose **Developer Services > CodeArts** from the service list.

Step 3 Click **Workspace** in the upper right corner.

Step 4 Go to the specified project. In the following figure, the content in the red box is the CodeArts project ID.



----End

6.3.2 Obtaining an IAM Project ID

Obtaining a Project ID by Calling an API

A project ID can be obtained by calling a specific API. For details, see [Querying Project Information](#).

The API used to obtain a project ID is **GET https://{Endpoint}/v4/projects/**, where *{Endpoint}* indicates the Req endpoint. You can obtain the Req endpoint from [Endpoints](#). For details about API authentication, see [Authentication](#).

In the following example, **project_id** indicates a project ID.

```
{
  "projects": [ {
    "project_num_id": 3183801,
    "project_id": "41bd3eab86544863b8fc92ffcd35e3c8",
    "project_name": "demo_project",
    "description": "demo",
    "created_time": 1576114296000,
    "updated_time": 1576114296000,
    "project_type": "xboard",
    "creator": {
      "user_num_id": 4097,
      "user_id": "c4bd39f0573a436589714bedbcca8536",
      "user_name": "modile_user",
      "domain_id": "2489d8cbba804db8bcd35384685ff3ac",
      "domain_name": "modile_user",
      "nick_name": "Tom.M.Riddle"
    }
  } ],
  "total": 10
}
```

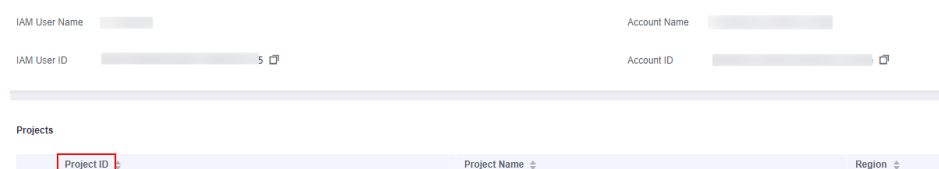
Obtaining an IAM Project ID from the Console

A project ID is required for some URLs when an API is called. To obtain a project ID, perform the following operations:

1. Log in to the management console.
2. Hover over the username in the upper right corner and click **My Credentials** from the drop-down list.

On the **API Credentials** page, view the project ID in the project list.

Figure 6-1 Viewing an IAM project ID



6.4 Obtaining an Account ID

An account ID is required for some URLs when an API is called. To obtain an account ID, perform the following operations:

1. Log in to the management console.
2. Hover over the username in the upper right corner and choose **My Credentials** from the drop-down list.
3. Choose **My Credentials > API Credentials** to view the account ID.

7 Change History

Changes between document issues are cumulative. The latest document issue contains all the changes made in earlier issues.

Change History	Date
This issue is the first official release.	September 30, 2022