Distributed Message Service for Kafka

API Reference

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HUAWEI

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Contents

1 Before You Start

Welcome to *Distributed Message Service for Kafka API Reference*. Distributed Message Service (DMS) for Kafka is a message queuing service that is based on the open-source Apache Kafka. It provides Kafka premium instances with isolated computing, storage, and bandwidth resources. DMS for Kafka allows you to apply resources, configure topics, partitions, and replicas as required. The service can be used out of the box and frees you from deployment and O&M so that you can focus on the agile development of your applications.

This document describes the functions, syntax, parameters, and examples of the application programming interfaces (APIs) of DMS for Kafka.

DMS for Kafka supports Representational State Transfer (REST) APIs, allowing you to call APIs using HTTPS. For details about API calling, 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**.

Concepts

- Account

  An account is created upon successful registration with the cloud system. 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, which should not be used directly to perform routine management. To ensure account security, create Identity and Access Management (IAM) users and grant them permissions for routine management.

- IAM user

  An IAM user is created by an account in IAM to use cloud services. Each IAM user has its own identity credentials (password and access keys).

  The account name, username, and password will be required for API authentication.

- Region

A region is a geographic area in which cloud resources are deployed. Availability zones (AZs) in the same region can communicate with each other over an intranet, while AZs in different regions are isolated from each other. Deploying cloud resources in different regions can better suit certain user requirements or comply with local laws or regulations.

- Availability Zone (AZ)

  An availability zone (AZ) comprises one or more physical data centers equipped with independent ventilation, fire, water, and electricity facilities. Compute, network, storage, and other resources in an AZ 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 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. Users can then be assigned permissions to access only specific resources in the subprojects.

- Enterprise project

  Enterprise projects group and manage resources across regions. Resources in different enterprise projects are logically isolated. An enterprise project can contain resources of multiple regions, and resources can be added to or removed from enterprise projects.

2 API Overview

Table 2-1 APIs for managing instances

API	Description
Managing Lifecycle	Includes: • Creating an Instance • Listing All Instances • Querying an Instance • Deleting an Instance • Modifying Instance Information • Batch Restarting or Deleting Instances • Obtaining Instance Configurations • Modifying Instance Configurations

API	Description
Instance Management	Includes: • Resetting the Password • Resetting Kafka Manager Password • Restarting Kafka Manager • Modifying the Private IP Address for Cross-VPC Access • Querying Kafka Cluster Metadata • Querying Coordinator Details of a Kafka Instance • Querying the Disk Usage Status of Topics • Disabling Kafka Manager • Deleting a User or Client Quota • Querying User or Client Quotas • Creating User or Client Quotas • Modifying User or Client Quotas • Querying Kafka Instance Rebalancing Log Details • Enabling Kafka Instance Rebalancing Logging • Disabling Kafka Instance Rebalancing Logging
Specification Modification Management	Includes: • Increasing Instance Specifications • Querying Product Information for Instance Specification Modification
Topic Management	Includes: • Configuring Automatic Topic Creation • Reassigning Replicas of a Topic for a Kafka Instance • Producing Messages to Kafka • Creating a Topic for a Kafka Instance • Listing Topics of a Kafka Instance • Modifying Topics of a Kafka Instance • Batch Deleting Topics of a Kafka Instance • Querying the Partition List of a Topic • Querying the Current Producer List of a Topic • Querying Topic Details • Deleting Topic Quotas • Creating a Topic Quota • Modifying Topic Quotas • Querying Topic Quotas • Initiating Partition Reassignment for a Kafka Instance

API	Description
Managing Consumer Groups	Includes: • Querying Consumer Group Details • Querying All Consumer Groups • Deleting Consumer Groups of a Kafka Instance in Batches • Creating a Consumer Group • Resetting Consumer Group Offset to the Specified Position • Querying the Offset of a Consumer Group • Querying a Specified Consumer Group • Deleting a Specified Consumer Group • Querying Topics of a Specified Consumer Group • Deleting Consumer Offset in a Specified Topic • Querying Consumers in a Specified Consumer Group
User Management	Includes: • Querying the User List • Creating a User • Deleting Users in Batches • Resetting a User Password • Querying User Permissions • Granting User Permissions
Managing Messages	Includes: • Querying messages • Querying a Message with a Specified Offset • Querying a Message with a Specified Time Period • Querying Offset of the Earliest Message in a Partition • Querying Offset of the Latest Message in a Partition • Deleting a Kafka Message
Background Task Management	Includes: • Listing Background Tasks • Querying a Background Task • Deleting a Background Task
Tag Management	Includes: • Batch Adding or Deleting Tags • Listing Tags of an Instance • Listing Tags of a Project

API	Description
Other APIs	Includes: • Listing Maintenance Time Windows • Listing AZ Information • Querying Product Specifications List • Querying Kafka Instance Monitoring Dimensions • Querying vCPUs of a Kafka Flavor

3 Calling APIs

3.1 Making an API Request

This section describes how to make a REST API request, and uses the IAM API for **obtaining a user token** as an example to describe how to call an API. The obtained user token can then be used for authentication when calling other APIs.

Request URI

A request URI is in the following format:

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

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

Table 3-1 Parameters in a URI

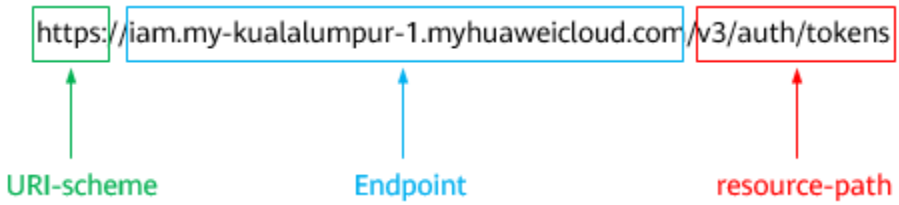
Parameter	Description
URI-scheme	Protocol used to transmit requests. All APIs use HTTPS.
Endpoint	Domain name or IP address of the server bearing the REST service. The endpoint varies between services in different regions. It can be obtained from **Regions and Endpoints**. For example, the endpoint of IAM in the **my-kualalumpur-1** region is **iam.my-kualalumpur-1.myhuaweicloud.com**.
resource-path	Access path of an API for performing a specified operation. Obtain the path from the URI of an API. For example, the resource-path of the API used for **obtaining a user token** is **/v3/auth/tokens**.

Parameter	Description
query-string	Query parameter, which is optional. Ensure that a question mark (**?**) is included before each query parameter that is in the format of *Parameter name*=*Parameter value*. For example, **? limit=10** indicates that a maximum of 10 data records will be displayed.

For example, to obtain an IAM token in the **AP-Kuala Lumpur-OP6** region, obtain the endpoint of IAM (**iam.my-kualalumpur-1.myhuaweicloud.com**) for this region and the resource-path (**/v3/auth/tokens**) in the URI of the API used for **obtaining a user token**. Then, construct the URI as follows:

```
https://iam.my-kualalumpur-1.myhuaweicloud.com/v3/auth/tokens
```

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

The HTTP protocol defines the following request methods that can be used to send a request to the server:

- **GET**: requests a server to return specified resources.
- **PUT**: requests a server to update specified resources.
- **POST**: requests a server to add resources or perform special operations.
- **DELETE**: requests a server to delete specified resources, for example, objects.
- **HEAD**: same as GET except that the server must return only the response header.
- **PATCH**: requests a server to update a part of a specified resource. If the resource does not exist, a new resource can be created using the PATCH method.

For example, in the case of the API used for **obtaining a user token**, the request method is **POST**. The request is as follows:

```
POST https://iam.my-kualalumpur-1.myhuaweicloud.com/v3/auth/tokens
```


Request Header

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

Table 3-2 lists the common request header fields.

Table 3-2 Common request header fields

Name	Description	Mandatory	Example Value
Host	Request server information, which is obtained from the URL of a service API. The value is in the format of *Hostname*:*Port number*. If no port is specified, the default port will be used. For HTTPS, port 443 is used by default.	No This parameter is mandatory for AK/SK authentication.	code.test.com or code.test.com:443
Content-Type	Message body type or format. The default value **application/json** is recommended. Other values of this field will be provided for specific APIs if any.	Yes	application/json
Content-Length	Length of the request body. The unit is byte.	No	3495
X-Project-Id	Project ID. Obtain the project ID by following the instructions in **Obtaining a Project ID**.	No	e9993fc787d94b6c886cbaa340f9c0f4

Name	Description	Mandatory	Example Value
X-Auth-Token	User token. The user token is a response to the API used for **obtaining a user token**. This API is the only one that does not require authentication. After the request is processed, the value of **X-Subject-Token** in the response header is the token value.	No Mandatory for token-based authentication.	The following is part of an example token: MIIPAgYJKoZIhvcNAQc-Co...ggg1BBIINPXsidG9rZ

NOTE

In addition to supporting token-based authentication, cloud service APIs also support authentication using the AK/SK. During AK/SK-based authentication, an SDK is used to sign the request, and the **Authorization** (signature information) and **X-Sdk-Date** (time when the request is sent) header fields are automatically added to the request.

For more information, see "AK/SK-based Authentication" in **Authentication**.

The API used for **obtaining a user token** does not require authentication. Therefore, only the **Content-Type** field needs to be added to requests for calling the API. An example of such requests is as follows:

```
POST https://iam.my-kualalumpur-1.myhuaweicloud.com/v3/auth/tokens
Content-Type: application/json
```

Request Body (Optional)

The body of a request is often sent in a structured format as specified in the **Content-type** header field, such as JSON or XML. The request body transfers content except the request header.

A request body varies between APIs. Some APIs do not require the request body, such as the APIs requested using the GET and DELETE methods.

In the case of the API used for **obtaining a user token**, the required parameter and description can be obtained from the API request. The following provides an example request with a body included. Replace ***username***, ***domainname***, ********* (login password), and ***xxxxxxxxxxxxxxxxx*** (project name) with the actual values The project name can be obtained from **Regions and Endpoints**.

NOTE

The **scope** parameter specifies where a token takes effect. You can set **scope** to an account or a project under an account. In the following example, the token takes effect only for the resources in a specified project. For more information about this API, see **Obtaining a User Token**.


```
POST https://iam.my-kualalumpur-1.myhuaweicloud.com/v3/auth/tokens
Content-Type: application/json

{
    "auth": {
        "identity": {
            "methods": [
                "password"
            ],
            "password": {
                "user": {
                    "name": "username",
                    "password": $ADMIN_PASS,    //For security purposes, you are advised to store the password in ciphertext in the configuration file or environment variable.
                    "domain": {
                        "name": "domainname"
                    }
                }
            }
        },
        "scope": {
            "project": {
                "name": "xxxxxxxxxxxxxxxxx"
            }
        }
    }
}
```

If all data required by a request is available, you can send the request to call the API through **curl**, **Postman**, or coding. In the response to the API used for obtaining a user token, **x-subject-token** is the desired user token. This token can then be used to authenticate the calling of other APIs.

3.2 Authentication

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

- AK/SK authentication: Requests are encrypted using AK/SK pairs. AK/SK-based authentication is recommended because it is more secure than token-based authentication.
- Token-based authentication: Requests are authenticated using a token.

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.

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

- AK: access key ID, which is a unique identifier used in conjunction with a secret access key to sign requests cryptographically.
- SK: secret access key used in conjunction with an AK to sign requests cryptographically. It identifies a request sender and prevents the request from being modified.

In AK/SK-based authentication, you can use an AK/SK to sign requests based on the signature algorithm or use the signing SDK to sign requests. For details about how to sign requests and use the signing SDK, see **API Request Signing Guide**.

NOTICE

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

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 IAM API used to obtain a user token.

A token specifies temporary permissions in a computer system. During API authentication using a token, the token is added to request headers to get permissions for calling the API. You can obtain a token by **calling an API**.

A cloud service can be deployed as either a project-level service or global service.

- For a project-level service, you need to obtain a project-level token. When you call the API, set **auth.scope** in the request body to **project**.
- For a global service, you need to obtain a global token. When you call the API, set **auth.scope** in the request body to **domain**.

When calling the API used for **obtaining a user token**, you must set **auth.scope** in the request body to **project**.

```
{
    "auth": {
        "identity": {
            "methods": [
                "password"
            ],
            "password": {
                "user": {
                    "name": "username",   //IAM username.
                    "password": $ADMIN_PASS,  //IAM password. For security, you are advised to store it in ciphertext in the configuration file or environment variable.
                    "domain": {
                        "name": "domainname"  //Name of the account of the IAM user.
                    }
                }
            }
        },
        "scope": {
            "project": {
                "name": "xxxxxxxx"    //Project name.
            }
        }
    }
}
```

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

```
GET https://iam.my-kualalumpur-1.myhuaweicloud.com/v3/auth/projects
```



```
Content-Type: application/json
X-Auth-Token: ABCDEFG....
```

3.3 Returned Values

Status Code

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

A status code is a group of digits ranging from 1xx to 5xx. It indicates the status of a response. For more information, see **Status Code**.

For the API used for **obtaining a user token**, if status code **201** is returned, the request is successful.

Response Header

A response header corresponds to a request header, for example, **Content-type**.

Figure 3-2 shows the response header for the API of **obtaining a user token**, in which **x-subject-token** is the desired user token. Then, you can use the token to authenticate the calling of other APIs.

NOTE

For security purposes, you are advised to store the token in ciphertext in the configuration file or environment variable.

Figure 3-2 Header of the response to the request for obtaining a user token

(Optional) Response Body

The body of a response is often returned in structured format (such as JSON or XML) as specified in the **Content-type** header field. The response body transfers content except the response header.

The response body for the API of **creating an IAM user** is shown as follows. The following shows part of the response body for the API to obtain a user token.

```
{
    "token": {
        "expires_at": "2019-02-13T06:52:13.855000Z",
        "methods": [
            "password"
        ],
        "catalog": [
            {
                "endpoints": [
                    {
                        "region_id": "XXXXXX",
.....
```

If an error occurs during API calling, the system returns an error code and a message to you. The following shows the format of an error response body:

```
{
    "error_msg": "The format of message is error",
    "error_code": "AS.0001"
}
```

In the preceding information, **error_code** is an error code, and **error_msg** describes the error.

4 Getting Started

Scenarios

This section describes how to call an API to create a Kafka instance and customize the computing capabilities and storage space of the instance based on service requirements.

For details on how to call APIs, see **Calling APIs**.

Prerequisites

- IAM endpoint obtained from **Regions and Endpoints**.
- Kafka endpoint obtained from **Regions and Endpoints**.

Creating a Kafka Instance

The following is an example request for creating a Kafka instance:

```
{
 "name": "kafka-demo",
 "engine": "kafka",
 "engine_version": 2.7,
 "broker_num": 3,
 "storage_space": 300,
 "vpc_id": "ead6c5ff-xxx-9ba91820e72c",
 "security_group_id": "aa75ae22-xxx-a9dec8c73220",
 "subnet_id": "3cb6afa2-xxx-05a7f671d6a8",
 "available_zones": [
  "effdcbcxxx6b42f56533"
 ],
 "product_id": "c6.2u4g.cluster",
 "storage_spec_code": "dms.physical.storage.high.v2"
}
```

- **name**: name of the instance.
- **engine**: message engine. The value is **kafka**.
- **engine_version**: version of the message engine.
- **broker_num**: number of proxies.
- **storage_space**: message storage space in GB. For details about the value range, see **Creating an Instance**.
- **vpc_id**: ID of the VPC where the Kafka instance resides. Obtain the value by using the API described in **Creating an Instance**.

- **security_group_id**: ID of the security group. Obtain the value by using the API described in **Creating an Instance**.
- **subnet_id**: ID of the VPC subnet. Obtain the value by using the API described in **Creating an Instance**.
- **available_zones**: ID of the AZ where the instance resides. The value cannot be empty or null. Obtain the value by calling the API described in **Querying AZ Information**.
- **product_id**: ID of the product. Obtain the value by calling the API described in **Querying Product Specifications**.
- **storage_spec_code**: storage I/O specification. For details about the value range, see **Creating an Instance**.

5 APIs V2 (Recommended)

5.1 Managing Lifecycle

5.1.1 Creating a Kafka Instance

Function

This API is used to create an instance.

URI

POST /v2/{project_id}/kafka/instances

Table 5-1 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: Project ID. For details, see **Obtaining a Project ID**. **Constraints**: N/A **Range**: N/A **Default Value**: N/A

Request Parameters

Table 5-2 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	**Definition**: Instance name. **Constraints**: A username must start with a letter. It can contain 4 to 64 characters. Only letters, digits, underscores (_), and hyphens (-) are allowed. **Range**: N/A **Default Value**: N/A
description	No	String	**Definition**: Description of an instance. **Constraints**: 0–1,024 characters The backslash () and quotation mark (") are special characters for JSON messages. When using these characters in a parameter value, add the escape character () before the characters, for example, **** and **\"**. **Range**: N/A **Default Value**: N/A
engine	Yes	String	**Definition**: Message engine. **Constraints**: N/A **Range**: kafka **Default Value**: N/A

Parameter	Mandatory	Type	Description
engine_version	Yes	String	**Definition**: Message engine version. **Constraints**: N/A **Range**: • **1.1.0** • **2.3.0** • **2.7** • **3.x** **Default Value**: N/A
broker_num	Yes	Integer	**Definition**: Number of brokers. **Constraints**: N/A **Range**: • For kafka.2u4g.cluster instances, the number range is 3–30. • For kafka.4u8g.cluster instances, the number range is 3–30. • For kafka.8u16g.cluster instances, the number range is 3–50. • For kafka.12u24g.cluster instances, the number range is 3–50. • For kafka.16u32g.cluster instances, the number range is 3–50. **Default Value**: N/A

Parameter	Mandatory	Type	Description
storage_space	Yes	Integer	**Definition**: Message storage space, in GB. **Constraints**: N/A **Range**: • 300–300,000 GB for c6.2u4g.cluster Kafka instances • 300–600,000 GB for c6.4u8g.cluster Kafka instances • 300–1,500,000 GB for c6.8u16g.cluster Kafka instances • 300–1,500,000 GB for c6.12u24g.cluster Kafka instances • 300–1,500,000 GB for c6.16u32g.cluster Kafka instances **Default Value**: N/A
access_user	No	String	**Definition**: Authentication username. **Constraints**: Starts with a letter, consists of 4 to 64 characters, and contains only letters, digits, hyphens (-), and underscores (_). This parameter is mandatory when **ssl_enable** is set to **true**. This parameter is invalid when **ssl_enable** is set to **false**. **Range**: N/A **Default Value**: N/A

Parameter	Mandatory	Type	Description
password	No	String	**Definition**: Instance password. **Constraints**: • This parameter is mandatory when **ssl_enable** is set to **true**. This parameter is invalid when **ssl_enable** is set to **false**. • Can contain 8 to 32 characters. • Must contain at least three of the following character types: – Lowercase letters – Uppercase letters – Digits – Special characters include (`~!@#$ %^&*()-_=+|[{}]:'",<.>/?) and spaces, and cannot start with a hyphen (-). **Range**: N/A **Default Value**: N/A
vpc_id	Yes	String	**Definition**: VPC ID. You can call the API for querying VPCs to obtain the VPC ID. The VPC ID is in the response body. For details, see *Virtual Private Cloud API Reference*. **Constraints**: N/A **Range**: N/A **Default Value**: N/A

Parameter	Mandatory	Type	Description
security_group_id	Yes	String	**Definition**: Security group to which the instance belongs. You can call the API for querying security groups to obtain the security group ID. The security group ID is in the response body. For details, see *Virtual Private Cloud API Reference*. **Constraints**: N/A **Range**: N/A **Default Value**: N/A
subnet_id	Yes	String	**Definition**: Subnet information. You can call the API for querying subnets to obtain the subnet ID. The subnet ID is in the response body. For details, see *Virtual Private Cloud API Reference*. **Constraints**: N/A **Range**: N/A **Default Value**: N/A
available_zones	Yes	Array of strings	**Definition**: ID of the AZ where instance brokers reside and which has available resources. Obtain the AZ ID by referring to **Listing AZ Information**. **Constraints**: This parameter cannot be empty or null. A Kafka instance should be deployed in 1 AZ or at least 3 AZs. If the instance is deployed in multiple AZs, separate the AZ IDs with commas (,).

Parameter	Mandatory	Type	Description
product_id	Yes	String	**Definition**: Product ID. Obtain the product ID from **Querying Product Specifications List**. **Constraints**: N/A **Range**: N/A **Default Value**: N/A
maintain_begin	No	String	**Definition**: Start time of the maintenance time window. **Constraints**: The value is in *HH:mm* format. **Range**: N/A **Default Value**: N/A
maintain_end	No	String	**Definition**: End time of the maintenance time window. **Constraints**: The value is in *HH:mm* format. **Range**: N/A **Default Value**: N/A
enable_publicip	No	Boolean	**Definition**: Whether to enable public access. **Constraints**: N/A **Range**: • **true**: Yes • **false**: No **Default Value**: false

Parameter	Mandatory	Type	Description
tenant_ips	No	Array of strings	**Definition**: You can manually specify IPv4 private IP addresses when creating an instance. **Constraints**: The number of specified private IP addresses must be equal to or less than the number of created brokers. If the number of specified private IP addresses is less than the number of created brokers, the system automatically assigns private IP addresses to the remaining brokers.
publicip_id	No	String	**Definition**: ID of the EIP bound to the instance. **Constraints**: Use commas (,) to separate multiple EIP IDs. This parameter is mandatory if public access is enabled (that is, **enable_publicip** is set to **true**). **Range**: N/A **Default Value**: N/A
ssl_enable	No	Boolean	**Definition**: Whether SASL is enabled. **Constraints**: N/A **Range**: • **true**: Yes • **false**: No **Default Value**: N/A

Parameter	Mandatory	Type	Description
kafka_security_protocol	No	String	**Definition**: Security protocol to use after SASL is enabled. **Constraints**: If this parameter is left blank, SASL_SSL authentication is enabled by default. This parameter cannot be manually modified once the instance is created. If the **port_protocol** parameter were used in instance creation, its value is used for the private and public network access security protocols and this parameter becomes invalid. **Range**: • **SASL_SSL**: Data is encrypted with SSL certificates for high-security transmission. • **SASL_PLAINTEXT**: Data is transmitted in plaintext with username and password authentication. **Default Value**: N/A
sasl_enabled_mechanisms	No	Array of strings	**Definition**: Authentication mechanism used after SASL is enabled. **Constraints**: This parameter is mandatory if SASL authentication is enabled (that is, **ssl_enable** is set to **true**). If this parameter is left blank, PLAIN authentication is enabled by default.

Parameter	Mandatory	Type	Description
port_protocol	No	PortProtocol object	**Definition**: Kafka instance access mode. **PLAINTEXT** indicates plaintext access. **SASL_SSL** or **SASL_PLAINTEXT** indicates ciphertext access. **Constraints**: Once enabled, this parameter cannot be disabled. Enable plaintext or ciphertext access, or both. The security protocol for cross-VPC access is the same as that for intranet access. If both ciphertext access and plaintext access are enabled for intranet access, the security protocol for ciphertext access is preferentially used for cross-VPC access.
retention_policy	No	String	**Definition**: Action to be taken when the memory usage reaches the disk capacity threshold. **Constraints**: N/A **Range**: • **produce_reject**: New messages cannot be created. • **time_base**: The earliest messages are deleted. **Default Value**: N/A

Parameter	Mandatory	Type	Description
ipv6_enable	No	Boolean	**Definition**: Whether IPv6 is enabled. **Constraints**: This parameter is available only when the VPC supports IPv6. **Range**: • **true**: Yes • **false**: No **Default Value**: false
disk_encrypted_enable	No	Boolean	**Definition**: Whether disk encryption is enabled. **Constraints**: N/A **Range**: • **true**: Yes • **false**: No **Default Value**: false
disk_encrypted_key	No	String	**Definition**: Disk encryption key. If disk encryption is not enabled, this parameter is left blank. **Constraints**: N/A **Range**: N/A **Default Value**: N/A

Parameter	Mandatory	Type	Description
connector_enable	No	Boolean	**Definition**: Whether to enable Smart Connect. Smart Connect synchronizes data between Kafka and other cloud services or between two Kafka instances for backup or migration. **Constraints**: N/A **Range**: • **true**: Yes • **false**: No **Default Value**: false
enable_auto_topic	No	Boolean	**Definition**: Whether to enable automatic Kafka topic creation. Enabling this function automatically creates a topic when a message is produced in or consumed from a topic that does not exist. **Constraints**: N/A **Range**: • **true**: Yes • **false**: No **Default Value**: false

Parameter	Mandatory	Type	Description
storage_spec_code	Yes	String	**Definition**: EVS type. For details about how to select a disk type, see "Disk Types and Disk Performance" in the EVS User Guide. **Constraints**: N/A **Range**: • **dms.physical.storage.high.v2**: high I/O EVS • **dms.physical.storage.ultra.v2**: ultra-high I/O EVS **Default Value**: N/A
enterprise_project_id	No	String	**Definition**: Enterprise project ID. **Constraints**: This parameter is mandatory for an enterprise project account. **Range**: N/A **Default Value**: N/A
tags	No	Array of **TagEntity** objects	**Definition**: Tags of a Kafka instance. **Constraints**: N/A
arch_type	No	String	**Definition**: CPU architecture. **Constraints**: N/A **Range**: • **X86** **Default Value**: N/A

Parameter	Mandatory	Type	Description
vpc_client_plain	No	Boolean	**Definition**: Private plaintext access in a VPC. **Constraints**: N/A **Range**: N/A **Default Value**: N/A
bss_param	No	**BssParam** object	**Definition**: Parameter related to the yearly/monthly billing mode. **Constraints**: N/A

Table 5-3 PortProtocol

Parameter	Mandatory	Type	Description
private_plain_enable	No	Boolean	**Definition**: Whether to enable the private plaintext access mode. **Constraints**: N/A **Range**: • **true**: Enabled. The connection address is *ip*:9092 and the access protocol is PLAINTEXT. • **false**: Disabled. **Default Value**: false

Parameter	Mandatory	Type	Description
private_sasl_ssl_enable	No	Boolean	**Definition**: Whether to enable the private ciphertext access mode using the security protocol SASL_SSL. **Constraints**: **private_sasl_ssl_enable** and **private_sasl_plaintext_enable** cannot be set to true at the same time. **Range**: • **true**: Enabled. • **false**: Disabled. **Default Value**: false
private_sasl_plaintext_enable	No	Boolean	**Definition**: Whether to enable the private ciphertext access mode using the security protocol SASL_PLAINTEXT. **Constraints**: **private_sasl_plaintext_enable** and **private_sasl_ssl_enable** cannot be set to true at the same time. **Range**: • **true**: Enabled. The connection address is *ip*:9093 and the access protocol is SASL_PLAINTEXT. • **false**: Disabled. **Default Value**: false

Parameter	Mandatory	Type	Description
public_plain_enable	No	Boolean	**Definition**: Whether to enable the public plaintext access mode. **Constraints**: Enable public access before enabling public plaintext access. **Range**: • **true**: Enabled. The connection address is *ip*:9094 and the access protocol is PLAINTEXT. • **false**: Disabled. **Default Value**: false
public_sasl_ssl_enable	No	Boolean	**Definition**: Whether to enable the public ciphertext access using the security protocol SASL_SSL. **Constraints**: **public_sasl_ssl_enable** and **public_sasl_plaintext_enable** cannot be set to true at the same time. If this parameter is set to true, public access needs to be enabled for the instance. **Range**: • **true**: Enabled. The connection address is *ip*:9095 and the access protocol is SASL_SSL. • **false**: Disabled. **Default Value**: false

Parameter	Mandatory	Type	Description
public_sasl_plaintext_enable	No	Boolean	**Definition**: Whether to enable the public ciphertext access mode using the security protocol SASL_PLAINTEXT. **Constraints**: **public_sasl_plaintext_enable** and **public_sasl_ssl_enable** cannot be set to true at the same time. If this parameter is set to true, public access needs to be enabled for the instance. **Range**: • **true**: Enabled. The connection address is *ip*:9095 and the access protocol is SASL_PLAINTEXT. • **false**: Disabled. **Default Value**: false

Table 5-4 TagEntity

Parameter	Mandatory	Type	Description
key	No	String	**Definition**: Tag key. **Constraints**: • Cannot be left blank. • Must be unique for the same instance. • Can contain 1 to 128 characters. • Can contain letters, digits, spaces, and special characters _.:=+-@ • Cannot start with ***sys*** • Cannot start or end with a space. **Range**: N/A **Default Value**: N/A
value	No	String	**Definition**: Tag value. **Constraints**: • Can contain 0 to 255 characters. • Can contain letters, digits, spaces, and special characters _.:=+-@ **Range**: N/A **Default Value**: N/A

Table 5-5 BssParam

Parameter	Mandatory	Type	Description
is_auto_renew	No	Boolean	**Definition**: Indicates whether auto-renewal is enabled. **Constraints**: N/A **Range**: • **true**: Subscriptions will be automatically renewed. • **false**: Subscriptions will not be automatically renewed. **Default Value**: false
charging_mode	No	String	**Definition**: Billing mode. **Constraints**: N/A **Range**: • **prePaid**: indicates the yearly/monthly billing mode. • **postPaid**: pay-per-use billing. **Default Value**: postPaid
is_auto_pay	No	Boolean	**Definition**: Whether the order is automatically or manually paid. **Constraints**: N/A **Range**: • **true**: yes. The order will be automatically paid. • **false**: The order must be manually paid. **Default Value**: false

Parameter	Mandatory	Type	Description
period_type	No	String	**Definition**: Subscription period type. **Constraints**: This parameter is valid and mandatory only when **chargingMode** is set to **prePaid**. **Range**: • **month**: monthly subscription • **year**: yearly subscription **Default Value**: N/A
period_num	No	Integer	**Definition**: Number of subscription periods. **Constraints**: This parameter is valid and mandatory only when **chargingMode** is set to **prePaid**. **Range**: • If **periodType** is **month**, the value ranges from **1** to **9**. • If **periodType** is **year**, the value ranges from **1** to **3**. **Default Value**: N/A

Response Parameters

Status code: 200

Table 5-6 Response body parameters

Parameter	Type	Description
instance_id	String	**Definition**: Instance ID. **Range**: N/A

Example Requests

Creating a pay-per-use Kafka instance whose version is 2.7, specifications are 2 vCPUs | 4 GB x 3, and storage space is 300 GB

```
POST https://{endpoint}/v2/{engine}/{project_id}/instances

{
  "name" : "kafka-test",
  "description" : "",
  "engine" : "kafka",
  "engine_version" : "2.7",
  "storage_space" : 300,
  "vpc_id" : "********-9b4a-44c5-a964-************",
  "subnet_id" : "********-8fbf-4438-ba71-************",
  "security_group_id" : "********-e073-4aad-991f-************",
  "available_zones" : [ "********706d4c1fb0eb72f0********" ],
  "product_id" : "c6.2u4g.cluster",
  "ssl_enable" : true,
  "kafka_security_protocol" : "SASL_SSL",
  "sasl_enabled_mechanisms" : [ "SCRAM-SHA-512" ],
  "storage_spec_code" : "dms.physical.storage.ultra.v2",
  "broker_num" : 3,
  "arch_type" : "X86",
  "enterprise_project_id" : "0",
  "access_user" : "********",
  "password" : "********",
  "enable_publicip" : true,
  "tags" : [ {
    "key" : "aaa",
    "value" : "111"
  } ],
  "retention_policy" : "time_base",
  "disk_encrypted_enable" : true,
  "disk_encrypted_key" : "********-b953-4875-a743-************",
  "publicip_id" : "********-88fc-4a8c-86d0-************,********-16af-455d-8d54-************,********-3d69-4367-95ab-************",
  "vpc_client_plain" : true,
  "enable_auto_topic" : true,
  "tenant_ips" : [ "127.xx.xx.x", "127.xx.xx.x", "127.xx.xx.x" ]
}
```

Example Responses

Status code: 200

Instance created successfully.

```
{
  "instance_id" : "8959ab1c-7n1a-yyb1-a05t-93dfc361b32d"
}
```

Status Codes

Status Code	Description
200	Instance created successfully.

Error Codes

See **Error Codes**.

5.1.2 Listing All Instances

Function

This API is used to query the instances of an account by the specified conditions.

URI

GET /v2/{project_id}/instances

Table 5-7 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: Project ID. For details, see **Obtaining a Project ID**. **Constraints**: N/A **Range**: N/A **Default Value**: N/A

Table 5-8 Query Parameters

Parameter	Mandatory	Type	Description
engine	Yes	String	**Definition**: Message engine. **Constraints**: N/A **Range**: Kafka **Default Value**: N/A

Parameter	Mandatory	Type	Description
name	No	String	**Definition**: Instance name. **Constraints**: N/A **Range**: N/A **Default Value**: N/A
instance_id	No	String	**Definition**: Instance ID. You can call the API for querying all instances to obtain the instance ID. The instance ID is in the response body. **Constraints**: N/A **Range**: N/A **Default Value**: N/A
status	No	String	**Definition**: Instance status. For details, see **Instance Status**. **Constraints**: N/A **Range**: N/A **Default Value**: N/A

Parameter	Mandatory	Type	Description
include_failure	No	String	**Definition**: Whether to return the number of instances that fail to be created. **Constraints**: N/A **Range**: ● **'true'**: Yes ● **'false'**: No **Default Value**: N/A
exact_match_name	No	String	**Definition**: Whether to search for the instance that precisely matches a specified instance name. **Constraints**: N/A **Range**: ● **'true'**: Yes ● **'false'**: No **Default Value**: **'false'**
enterprise_project_id	No	String	**Definition**: Enterprise project ID. **Constraints**: N/A **Range**: N/A **Default Value**: N/A
offset	No	String	**Definition**: Offset where the query starts. **Constraints**: N/A **Range**: ≥ 0 **Default Value**: N/A

Parameter	Mandatory	Type	Description
limit	No	String	**Definition**: Maximum number of instances that can be returned in a query. **Constraints**: N/A **Range**: 1–50 **Default Value**: 10.

Request Parameters

None

Response Parameters

Status code: 200

Table 5-9 Response body parameters

Parameter	Type	Description
instances	Array of **ShowInstanceResp** objects	**Definition**: Instance list.
instance_num	Integer	**Definition**: Number of instances. **Range**: N/A

Table 5-10 ShowInstanceResp

Parameter	Type	Description
name	String	**Definition**: Instance name. **Range**: N/A

Parameter	Type	Description
engine	String	**Definition**: Engine. **Range**: kafka
engine_version	String	**Definition**: Kafka version. **Range**: • **1.1.0** • **2.3.0** • **2.7** • **3.x**
description	String	**Definition**: Instance description. **Range**: N/A
specification	String	**Definition**: Instance specification. **Range**: N/A
storage_space	Integer	**Definition**: Message storage space, in GB. **Range**: • 300–300,000 GB for c6.2u4g.cluster Kafka instances • 300–600,000 GB for c6.4u8g.cluster Kafka instances • 300–1,500,000 GB for c6.8u16g.cluster Kafka instances • 300–1,500,000 GB for c6.12u24g.cluster Kafka instances • 300–1,500,000 GB for c6.16u32g.cluster Kafka instances
partition_num	String	**Definition**: Number of partitions in a Kafka instance. **Range**: N/A

Parameter	Type	Description
used_storage_space	Integer	**Definition**: Used message storage space, in GB. **Range**: N/A
dns_enable	Boolean	**Definition**: Whether to enable domain name access to an instance. **Range**: • **true**: Yes • **false**: No
connect_address	String	**Definition**: Instance IP address. **Range**: N/A
port	Integer	**Definition**: Instance port. **Range**: N/A
status	String	**Definition**: Status of an instance. For details, see **Instance Status**. **Range**: N/A
instance_id	String	**Definition**: Instance ID. **Range**: N/A

Parameter	Type	Description
resource_spec_code	String	**Definition**: Resource specification ID. **Range**: • **dms.instance.kafka.cluster.c3.mini**: Kafka instance with 100 MB/s bandwidth • **dms.instance.kafka.cluster.c3.small.2**: Kafka instance with 300 MB/s bandwidth • **dms.instance.kafka.cluster.c3.middle.2**: Kafka instance with 600 MB/s bandwidth • **dms.instance.kafka.cluster.c3.high.2**: Kafka instance with 1200 MB/s bandwidth
charging_mode	Integer	**Definition**: Billing mode. **Range**: • **1**: pay-per-use
vpc_id	String	**Definition**: VPC ID. **Range**: N/A
vpc_name	String	**Definition**: VPC name. **Range**: N/A
created_at	String	**Definition**: Time when creation is complete. The time is in the format of timestamp, that is, the offset milliseconds from 1970-01-01 00:00:00 UTC to the specified time. **Range**: N/A
subnet_name	String	**Definition**: Subnet name. **Range**: N/A

Parameter	Type	Description
subnet_cidr	String	**Definition**: Subnet CIDR block. **Range**: N/A
user_id	String	**Definition**: User ID. **Range**: N/A
user_name	String	**Definition**: Username. **Range**: N/A
access_user	String	**Definition**: Username for accessing an instance. **Range**: N/A
order_id	String	**Definition**: Indicates an order ID. This parameter has a value only when the billing mode is yearly/monthly mode. **Range**: N/A
maintain_begin	String	**Definition**: Time at which the maintenance window starts. The format is *HH:mm:ss*. **Range**: N/A
maintain_end	String	**Definition**: Time at which the maintenance window ends. The format is *HH:mm:ss*. **Range**: N/A

Parameter	Type	Description
enable_publicip	Boolean	**Definition**: Indicates whether public access is enabled for an instance. **Range**: • **true**: Yes • **false**: No
management_connect_address	String	**Definition**: Indicates the connection address of the Kafka Manager of a Kafka instance. **Range**: N/A
ssl_enable	Boolean	**Definition**: Whether security authentication is enabled. **Range**: • **true**: Yes • **false**: No
broker_ssl_enable	Boolean	**Definition**: Indicates whether to enable encrypted replica transmission among brokers. **Range**: • **true**: Yes • **false**: No

Parameter	Type	Description
kafka_security_protocol	String	**Definition**: Security protocol used by Kafka. If **port-protocols** is returned in the instance details, **kafka_security_protocol** works as the security protocol for private and public network access, and cross-VPC access. Otherwise, **kafka_security_protocol** works as the security protocol only for cross-VPC access. For the security protocol for private and public network access, see **port_protocols**. **Range**: • **PLAINTEXT**: No SSL certificate is used for encrypted transmission, and username and password authentication is not supported. This mode provides better performance but lower security. Do not use this mode for public access in a production environment. • **SASL_SSL**: Data is encrypted with SSL certificates for high-security transmission. • **SASL_PLAINTEXT**: Data is transmitted in plaintext with username and password authentication. This protocol uses the SCRAM-SHA-512 mechanism and delivers high performance.
sasl_enabled_mechanisms	Array of strings	**Definition**: Authentication mechanism used after SASL is enabled.
ssl_two_way_enable	Boolean	**Definition**: Indicates whether to enable two-way authentication. **Range**: • **true**: Yes • **false**: No

Parameter	Type	Description
cert_replaced	Boolean	**Definition**: Whether to enable certificate replacement. **Range**: • **true**: Yes • **false**: No
public_management_connect_address	String	**Definition**: Address for accessing Kafka Manager over public networks. **Range**: N/A
enterprise_project_id	String	**Definition**: Enterprise project ID. **Range**: N/A
is_logical_volume	Boolean	**Definition**: Distinguishes old instances from new instances during instance capacity expansion. **Range**: • **true**: New instance, which allows dynamic disk capacity expansion without restarting the instance. • **false**: Old instance.
extend_times	Integer	**Definition**: Indicates the number of disk expansion times. If it exceeds 20, the disk cannot be expanded. **Range**: N/A
enable_auto_topic	Boolean	**Definition**: Whether to enable automatic topic creation. **Range**: • **true**: Yes • **false**: No

Parameter	Type	Description
type	String	**Definition**: Instance type. **Range**: • **single**: single-node • **cluster**: cluster
product_id	String	**Definition**: Product ID. **Range**: N/A
security_group_id	String	**Definition**: Security group ID. **Range**: N/A
security_group_name	String	**Definition**: Security group name. **Range**: N/A
subnet_id	String	**Definition**: Subnet ID. **Range**: N/A
available_zones	Array of strings	**Definition**: Indicates the ID of the AZ to which the instance node belongs. The AZ ID is returned.
available_zone_names	Array of strings	**Definition**: Indicates the AZ name to which the instance node belongs. The AZ name is returned.
total_storage_space	Integer	**Definition**: Total message storage space, in GB. **Range**: N/A

Parameter	Type	Description
public_connect_address	String	**Definition**: Instance IP address for public access. This parameter is available only when public access is enabled for the instance. **Range**: N/A
public_connect_domain_name	String	**Definition**: Instance domain name for public access. This parameter is available only when public access is enabled for the instance. **Range**: N/A
storage_resource_id	String	**Definition**: Storage resource ID. **Range**: N/A
storage_spec_code	String	**Definition**: I/O specification. **Range**: N/A
service_type	String	**Definition**: Service type. **Range**: advanced
storage_type	String	**Definition**: Storage type. **Range**: N/A
retention_policy	String	**Definition**: Message retention policy. **Range**: • **time_base**: The earliest messages are deleted. • **produce_reject**: New messages cannot be created.

Parameter	Type	Description
kafka_public_status	String	**Definition**: Whether Kafka public access is enabled. **Range**: • **true**: enabled. • **closed**: disabled. • **false**: not used. • **freezed**: frozen. • **actived**: unfrozen.
public_bandwidth	Integer	**Definition**: Public network access bandwidth. **Range**: N/A
enable_log_collection	Boolean	**Definition**: Whether log collection is enabled. **Range**: • **true**: Yes • **false**: No
new_auth_cert	Boolean	**Definition**: Indicates whether to enable a new certificate. **Range**: • **true**: Yes • **false**: No
cross_vpc_info	String	**Definition**: Cross-VPC access information. **Range**: N/A
ipv6_enable	Boolean	**Definition**: Whether IPv6 is enabled. **Range**: • **true**: Yes • **false**: No
ipv6_connect_addresses	Array of strings	**Definition**: IPv6 connection address.

Parameter	Type	Description
connector_enable	Boolean	**Definition**: Indicates whether dumping is enabled. **Range**: ● **true**: Yes ● **false**: No
connector_node_num	Integer	**Definition**: Number of connectors. **Range**: 2–16
connector_id	String	**Definition**: Dumping task ID. **Range**: N/A
rest_enable	Boolean	**Definition**: Indicates whether the Kafka REST function is enabled. **Range**: ● **true**: Yes ● **false**: No
rest_connect_address	String	**Definition**: Indicates the Kafka REST connection address. **Range**: N/A
public_boundwidth	Integer	**Definition**: Public network access bandwidth. To be deleted. **Range**: N/A
message_query_inst_enable	Boolean	**Definition**: Indicates whether message query is enabled. **Range**: ● **true**: Yes ● **false**: No

Parameter	Type	Description
vpc_client_plain	Boolean	**Definition**: Indicates whether intra-VPC plaintext access is enabled. **Range**: • **true**: Yes • **false**: No
support_features	String	**Definition**: Indicates the list of features supported by the Kafka instance. **Range**: N/A
trace_enable	Boolean	**Definition**: Indicates whether message tracing is enabled. **Range**: • **true**: Yes • **false**: No
agent_enable	Boolean	**Definition**: Indicates whether the proxy is enabled. **Range**: • **true**: Yes • **false**: No
pod_connect_address	String	**Definition**: Indicates the connection address on the tenant side. **Range**: N/A
disk_encrypted	Boolean	**Definition**: Whether disk encryption is enabled. **Range**: • **true**: Yes • **false**: No
disk_encrypted_key	String	**Definition**: Disk encryption key. If disk encryption is not enabled, this parameter is left blank. **Range**: N/A

Parameter	Type	Description
kafka_private_connect_address	String	**Definition**: Indicates the private connection address of a Kafka instance. **Range**: N/A
kafka_private_connect_domain_name	String	**Definition**: Indicates the private domain name of a Kafka instance. **Range**: N/A
ces_version	String	**Definition**: Cloud Eye version. **Range**: N/A
public_access_enabled	String	**Definition**: Time when public access was enabled for an instance. **Range**: • **true**: already enabled. • **actived**: already enabled. • **closed**: already disabled. • **false**: already disabled.
node_num	Integer	**Definition: Number of nodes. Range:** • 3–50: number of nodes of a cluster Kafka instance.
port_protocols	**PortProtocolsEntity** object	**Definition**: Connection modes and addresses supported by an instance.
enable_acl	Boolean	**Definition**: Indicates whether access control is enabled. **Range**: • **true**: Yes • **false**: No

Parameter	Type	Description
new_spec_billing_enable	Boolean	**Definition**: Whether billing based on new specifications is enabled. **Range**: • **true**: Yes • **false**: No
broker_num	Integer	**Definition**: Number of nodes. **Range**: N/A
tags	Array of **TagEntity** objects	**Definition**: Tag list.
dr_enable	Boolean	**Definition**: Whether DR is enabled. **Range**: • **true**: Yes • **false**: No

Table 5-11 PortProtocolsEntity

Parameter	Type	Description
private_plain_enable	Boolean	**Definition**: Whether private plaintext access is supported by an instance. **Range**: • **true**: Yes • **false**: No
private_plain_address	String	**Definition**: Connection addresses of Kafka private plaintext access. **Range**: N/A
private_plain_domain_name	String	**Definition**: Private plaintext connection domain name. **Range**: N/A

Parameter	Type	Description
private_sasl_ssl_enable	Boolean	**Definition**: Whether the instance supports private SASL_SSL access. **Range**: • **true**: Yes • **false**: No
private_sasl_ssl_address	String	**Definition**: Connection addresses of the Kafka private SASL_SSL access mode. **Range**: N/A
private_sasl_ssl_domain_name	String	**Definition**: Private SASL_SSL connection domain name. **Range**: N/A
private_sasl_plaintext_enable	Boolean	**Definition**: Whether the instance supports private SASL_PLAINTEXT access. **Range**: • **true**: Yes • **false**: No
private_sasl_plaintext_address	String	**Definition**: Connection addresses of the Kafka private SASL_PLAINTEXT access mode. **Range**: N/A
private_sasl_plaintext_domain_name	String	**Definition**: Private SASL_PLAINTEXT connection domain name. **Range**: N/A
public_plain_enable	Boolean	**Definition**: Whether the instance supports public plaintext access. **Range**: • **true**: Yes • **false**: No

Parameter	Type	Description
public_plain_address	String	**Definition**: Connection addresses of Kafka public plaintext access. **Range**: N/A
public_plain_domain_name	String	**Definition**: Public plaintext connection domain name. **Range**: N/A
public_sasl_ssl_enable	Boolean	**Definition**: Whether the instance supports public SASL_SSL access. **Range**: ● **true**: Yes ● **false**: No
public_sasl_ssl_address	String	**Definition**: Connection addresses of the Kafka public SASL_SSL access mode. **Range**: N/A
public_sasl_ssl_domain_name	String	**Definition**: Public SASL_SSL connection domain name. **Range**: N/A
public_sasl_plaintext_enable	Boolean	**Definition**: Whether the instance supports public SASL_PLAINTEXT access. **Range**: ● **true**: Yes ● **false**: No
public_sasl_plaintext_address	String	**Definition**: Connection addresses of the Kafka public SASL_PLAINTEXT access mode. **Range**: N/A

Parameter	Type	Description
public_sasl_plaintext_domain_name	String	**Definition**: Public SASL_PLAINTEXT connection domain name. **Range**: N/A

Table 5-12 TagEntity

Parameter	Type	Description
key	String	**Definition**: Tag key. **Constraints**: • Cannot be left blank. • Must be unique for the same instance. • Can contain 1 to 128 characters. • Can contain letters, digits, spaces, and special characters _.:=+-@ • Cannot start with ***sys*** • Cannot start or end with a space. **Range**: N/A **Default Value**: N/A
value	String	**Definition**: Tag value. **Constraints**: • Can contain 0 to 255 characters. • Can contain letters, digits, spaces, and special characters _.:=+-@ **Range**: N/A **Default Value**: N/A

Example Requests

Querying the instance list


```
GET https://{endpoint}/v2/{project_id}/instances
```

Example Responses

Status code: 200

Instance list queried.


```
{
  "instances" : [ {
    "name" : "kafka-2085975099",
    "engine" : "kafka",
    "port" : 9092,
    "status" : "RUNNING",
    "description" : "",
    "type" : "cluster",
    "specification" : "kafka.2u4g.cluster * 3 broker",
    "engine_version" : 2.7,
    "connect_address" : "192.168.0.100,192.168.0.61,192.168.0.72",
    "instance_id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx",
    "resource_spec_code" : "",
    "charging_mode" : 1,
    "vpc_id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx",
    "vpc_name" : "dms-test",
    "created_at" : "1585618587087",
    "product_id" : "c6.2u4g.cluster",
    "security_group_id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx",
    "security_group_name" : "Sys-default",
    "subnet_id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx",
    "available_zones" : [ "38b0f7a602344246bcb0da47b5d548e7" ],
    "available_zone_names" : [ "AZ1" ],
    "user_id" : "xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
    "user_name" : "paas_dms",
    "maintain_begin" : "02:00:00",
    "maintain_end" : "06:00:00",
    "enable_log_collection" : false,
    "new_auth_cert" : false,
    "storage_space" : 492,
    "total_storage_space" : 600,
    "used_storage_space" : 25,
    "partition_num" : "750",
    "enable_publicip" : false,
    "ssl_enable" : false,
    "broker_ssl_enable" : false,
    "cert_replaced" : false,
    "management_connect_address" : "https://192.168.0.100:9999",
    "cross_vpc_info" : "{\"192.168.0.61\":{\"advertised_ip\":\"192.168.0.61\",\"port\":9011,\"port_id
\":\"xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx\"},\"192.168.0.72\":{\"advertised_ip\":\"192.168.0.72\",\"port
\":9011,\"port_id\":\"xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx\"},\"192.168.0.100\":{\"advertised_ip
\":\"192.168.0.100\",\"port\":9011,\"port_id\":\"xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx\"}}",
    "storage_resource_id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx",
    "storage_spec_code" : "dms.physical.storage.ultra",
    "service_type" : "advanced",
    "storage_type" : "hec",
    "enterprise_project_id" : "0",
    "is_logical_volume" : true,
    "extend_times" : 0,
    "retention_policy" : "produce_reject",
    "ipv6_enable" : false,
    "ipv6_connect_addresses" : [ ],
    "connector_enable" : false,
    "connector_node_num" : 0,
    "connector_id" : "",
    "rest_enable" : false,
    "rest_connect_address" : "",
    "kafka_public_status" : "closed",
    "public_bandwidth" : 0,
    "message_query_inst_enable" : true,
    "vpc_client_plain" : false,
```



```
    "support_features" :
"kafka.new.pod.port,feature.physerver.kafka.topic.modify,feature.physerver.kafka.topic.accesspolicy,message_t
race_enable,features.pod.token.access,feature.physerver.kafka.pulbic.dynamic,roma_app_enable,features.log.c
ollection,auto_topic_switch,feature.physerver.kafka.user.manager",
    "trace_enable" : false,
    "agent_enable" : false,
    "pod_connect_address" : "100.86.75.15:9080,100.86.142.77:9080,100.86.250.167:9080",
    "disk_encrypted" : false,
    "kafka_private_connect_address" : "192.168.0.61:9092,192.168.0.100:9092,192.168.0.72:9092",
    "enable_auto_topic" : false,
    "new_spec_billing_enable" : false,
    "ces_version" : "linux"
  } ],
  "instance_num" : 1
}
```


Status Codes

Status Code	Description
200	Instance list queried.

Error Codes

See **Error Codes**.

5.1.3 Querying an Instance

Function

This API is used to query the details about a specified instance.

URI

GET /v2/{project_id}/instances/{instance_id}

Table 5-13 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: Project ID. For details, see **Obtaining a Project ID**. **Constraints**: N/A **Range**: N/A **Default Value**: N/A

Parameter	Mandatory	Type	Description
instance_id	Yes	String	**Definition**: Instance ID. You can call the API for querying all instances to obtain the instance ID. The instance ID is in the response body. **Constraints**: N/A **Range**: N/A **Default Value**: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 5-14 Response body parameters

Parameter	Type	Description
name	String	**Definition**: Instance name. **Range**: N/A
engine	String	**Definition**: Engine. **Range**: kafka
engine_version	String	**Definition**: Kafka version. **Range**: • **1.1.0** • **2.3.0** • **2.7** • **3.x**

Parameter	Type	Description
description	String	**Definition**: Instance description. **Range**: N/A
specification	String	**Definition**: Instance specification. **Range**: N/A
storage_space	Integer	**Definition**: Message storage space, in GB. **Range**: • 300–300,000 GB for c6.2u4g.cluster Kafka instances • 300–600,000 GB for c6.4u8g.cluster Kafka instances • 300–1,500,000 GB for c6.8u16g.cluster Kafka instances • 300–1,500,000 GB for c6.12u24g.cluster Kafka instances • 300–1,500,000 GB for c6.16u32g.cluster Kafka instances
partition_num	String	**Definition**: Number of partitions in a Kafka instance. **Range**: N/A
used_storage_space	Integer	**Definition**: Used message storage space, in GB. **Range**: N/A
dns_enable	Boolean	**Definition**: Whether to enable domain name access to an instance. **Range**: • **true**: Yes • **false**: No

Parameter	Type	Description
connect_address	String	**Definition**: Instance IP address. **Range**: N/A
port	Integer	**Definition**: Instance port. **Range**: N/A
status	String	**Definition**: Status of an instance. For details, see **Instance Status**. **Range**: N/A
instance_id	String	**Definition**: Instance ID. **Range**: N/A
resource_spec_code	String	**Definition**: Resource specification ID. **Range**: • **dms.instance.kafka.cluster.c3.mini**: Kafka instance with 100 MB/s bandwidth • **dms.instance.kafka.cluster.c3.small.2**: Kafka instance with 300 MB/s bandwidth • **dms.instance.kafka.cluster.c3.middle.2**: Kafka instance with 600 MB/s bandwidth • **dms.instance.kafka.cluster.c3.high.2**: Kafka instance with 1200 MB/s bandwidth
charging_mode	Integer	**Definition**: Billing mode. **Range**: • **1**: pay-per-use

Parameter	Type	Description
vpc_id	String	**Definition**: VPC ID. **Range**: N/A
vpc_name	String	**Definition**: VPC name. **Range**: N/A
created_at	String	**Definition**: Time when creation is complete. The time is in the format of timestamp, that is, the offset milliseconds from 1970-01-01 00:00:00 UTC to the specified time. **Range**: N/A
subnet_name	String	**Definition**: Subnet name. **Range**: N/A
subnet_cidr	String	**Definition**: Subnet CIDR block. **Range**: N/A
user_id	String	**Definition**: User ID. **Range**: N/A
user_name	String	**Definition**: Username. **Range**: N/A
access_user	String	**Definition**: Username for accessing an instance. **Range**: N/A

Parameter	Type	Description
order_id	String	**Definition**: Indicates an order ID. This parameter has a value only when the billing mode is yearly/monthly mode. **Range**: N/A
maintain_begin	String	**Definition**: Time at which the maintenance window starts. The format is *HH:mm:ss*. **Range**: N/A
maintain_end	String	**Definition**: Time at which the maintenance window ends. The format is *HH:mm:ss*. **Range**: N/A
enable_publicip	Boolean	**Definition**: Indicates whether public access is enabled for an instance. **Range**: ● **true**: Yes ● **false**: No
management_connect_address	String	**Definition**: Indicates the connection address of the Kafka Manager of a Kafka instance. **Range**: N/A
ssl_enable	Boolean	**Definition**: Whether security authentication is enabled. **Range**: ● **true**: Yes ● **false**: No

Parameter	Type	Description
broker_ssl_enable	Boolean	**Definition**: Indicates whether to enable encrypted replica transmission among brokers. **Range**: • **true**: Yes • **false**: No
kafka_security_protocol	String	**Definition**: Security protocol used by Kafka. If **port-protocols** is returned in the instance details, **kafka_security_protocol** works as the security protocol for private and public network access, and cross-VPC access. Otherwise, **kafka_security_protocol** works as the security protocol only for cross-VPC access. For the security protocol for private and public network access, see **port_protocols**. **Range**: • **PLAINTEXT**: No SSL certificate is used for encrypted transmission, and username and password authentication is not supported. This mode provides better performance but lower security. Do not use this mode for public access in a production environment. • **SASL_SSL**: Data is encrypted with SSL certificates for high-security transmission. • **SASL_PLAINTEXT**: Data is transmitted in plaintext with username and password authentication. This protocol uses the SCRAM-SHA-512 mechanism and delivers high performance.
sasl_enabled_mechanisms	Array of strings	**Definition**: Authentication mechanism used after SASL is enabled.

Parameter	Type	Description
ssl_two_way_enable	Boolean	**Definition**: Indicates whether to enable two-way authentication. **Range**: • **true**: Yes • **false**: No
cert_replaced	Boolean	**Definition**: Whether to enable certificate replacement. **Range**: • **true**: Yes • **false**: No
public_management_connect_address	String	**Definition**: Address for accessing Kafka Manager over public networks. **Range**: N/A
enterprise_project_id	String	**Definition**: Enterprise project ID. **Range**: N/A
is_logical_volume	Boolean	**Definition**: Distinguishes old instances from new instances during instance capacity expansion. **Range**: • **true**: New instance, which allows dynamic disk capacity expansion without restarting the instance. • **false**: Old instance.
extend_times	Integer	**Definition**: Indicates the number of disk expansion times. If it exceeds 20, the disk cannot be expanded. **Range**: N/A

Parameter	Type	Description
enable_auto_topic	Boolean	**Definition**: Whether to enable automatic topic creation. **Range**: • **true**: Yes • **false**: No
type	String	**Definition**: Instance type. **Range**: • **single**: single-node • **cluster**: cluster
product_id	String	**Definition**: Product ID. **Range**: N/A
security_group_id	String	**Definition**: Security group ID. **Range**: N/A
security_group_name	String	**Definition**: Security group name. **Range**: N/A
subnet_id	String	**Definition**: Subnet ID. **Range**: N/A
available_zones	Array of strings	**Definition**: Indicates the ID of the AZ to which the instance node belongs. The AZ ID is returned.
available_zone_names	Array of strings	**Definition**: Indicates the AZ name to which the instance node belongs. The AZ name is returned.

Parameter	Type	Description
total_storage_space	Integer	**Definition**: Total message storage space, in GB. **Range**: N/A
public_connect_address	String	**Definition**: Instance IP address for public access. This parameter is available only when public access is enabled for the instance. **Range**: N/A
public_connect_domain_name	String	**Definition**: Instance domain name for public access. This parameter is available only when public access is enabled for the instance. **Range**: N/A
storage_resource_id	String	**Definition**: Storage resource ID. **Range**: N/A
storage_spec_code	String	**Definition**: I/O specification. **Range**: N/A
service_type	String	**Definition**: Service type. **Range**: advanced
storage_type	String	**Definition**: Storage type. **Range**: N/A

Parameter	Type	Description
retention_policy	String	**Definition**: Message retention policy. **Range**: • **time_base**: The earliest messages are deleted. • **produce_reject**: New messages cannot be created.
kafka_public_status	String	**Definition**: Whether Kafka public access is enabled. **Range**: • **true**: enabled. • **closed**: disabled. • **false**: not used. • **freezed**: frozen. • **actived**: unfrozen.
public_bandwidth	Integer	**Definition**: Public network access bandwidth. **Range**: N/A
enable_log_collection	Boolean	**Definition**: Whether log collection is enabled. **Range**: • **true**: Yes • **false**: No
new_auth_cert	Boolean	**Definition**: Indicates whether to enable a new certificate. **Range**: • **true**: Yes • **false**: No
cross_vpc_info	String	**Definition**: Cross-VPC access information. **Range**: N/A

Parameter	Type	Description
ipv6_enable	Boolean	**Definition**: Whether IPv6 is enabled. **Range**: ● **true**: Yes ● **false**: No
ipv6_connect_addresses	Array of strings	**Definition**: IPv6 connection address.
connector_enable	Boolean	**Definition**: Indicates whether dumping is enabled. **Range**: ● **true**: Yes ● **false**: No
connector_node_num	Integer	**Definition**: Number of connectors. **Range**: 2–16
connector_id	String	**Definition**: Dumping task ID. **Range**: N/A
rest_enable	Boolean	**Definition**: Indicates whether the Kafka REST function is enabled. **Range**: ● **true**: Yes ● **false**: No
rest_connect_address	String	**Definition**: Indicates the Kafka REST connection address. **Range**: N/A
public_boundwidth	Integer	**Definition**: Public network access bandwidth. To be deleted. **Range**: N/A

Parameter	Type	Description
message_query_inst_enable	Boolean	**Definition**: Indicates whether message query is enabled. **Range**: • **true**: Yes • **false**: No
vpc_client_plain	Boolean	**Definition**: Indicates whether intra-VPC plaintext access is enabled. **Range**: • **true**: Yes • **false**: No
support_features	String	**Definition**: Indicates the list of features supported by the Kafka instance. **Range**: N/A
trace_enable	Boolean	**Definition**: Indicates whether message tracing is enabled. **Range**: • **true**: Yes • **false**: No
agent_enable	Boolean	**Definition**: Indicates whether the proxy is enabled. **Range**: • **true**: Yes • **false**: No
pod_connect_address	String	**Definition**: Indicates the connection address on the tenant side. **Range**: N/A
disk_encrypted	Boolean	**Definition**: Whether disk encryption is enabled. **Range**: • **true**: Yes • **false**: No

Parameter	Type	Description
disk_encrypted_key	String	**Definition**: Disk encryption key. If disk encryption is not enabled, this parameter is left blank. **Range**: N/A
kafka_private_connect_address	String	**Definition**: Indicates the private connection address of a Kafka instance. **Range**: N/A
kafka_private_connect_domain_name	String	**Definition**: Indicates the private domain name of a Kafka instance. **Range**: N/A
ces_version	String	**Definition**: Cloud Eye version. **Range**: N/A
public_access_enabled	String	**Definition**: Time when public access was enabled for an instance. **Range**: • **true**: already enabled. • **actived**: already enabled. • **closed**: already disabled. • **false**: already disabled.
node_num	Integer	**Definition: Number of nodes. Range:** • 3–50: number of nodes of a cluster Kafka instance.
port_protocols	**PortProtocolsEntity** object	**Definition**: Connection modes and addresses supported by an instance.

Parameter	Type	Description
enable_acl	Boolean	**Definition**: Indicates whether access control is enabled. **Range**: • **true**: Yes • **false**: No
new_spec_billing_enable	Boolean	**Definition**: Whether billing based on new specifications is enabled. **Range**: • **true**: Yes • **false**: No
broker_num	Integer	**Definition**: Number of nodes. **Range**: N/A
tags	Array of **TagEntity** objects	**Definition**: Tag list.
dr_enable	Boolean	**Definition**: Whether DR is enabled. **Range**: • **true**: Yes • **false**: No

Table 5-15 PortProtocolsEntity

Parameter	Type	Description
private_plain_enable	Boolean	**Definition**: Whether private plaintext access is supported by an instance. **Range**: • **true**: Yes • **false**: No

Parameter	Type	Description
private_plain_address	String	**Definition**: Connection addresses of Kafka private plaintext access. **Range**: N/A
private_plain_domain_name	String	**Definition**: Private plaintext connection domain name. **Range**: N/A
private_sasl_ssl_enable	Boolean	**Definition**: Whether the instance supports private SASL_SSL access. **Range**: ● **true**: Yes ● **false**: No
private_sasl_ssl_address	String	**Definition**: Connection addresses of the Kafka private SASL_SSL access mode. **Range**: N/A
private_sasl_ssl_domain_name	String	**Definition**: Private SASL_SSL connection domain name. **Range**: N/A
private_sasl_plaintext_enable	Boolean	**Definition**: Whether the instance supports private SASL_PLAINTEXT access. **Range**: ● **true**: Yes ● **false**: No
private_sasl_plaintext_address	String	**Definition**: Connection addresses of the Kafka private SASL_PLAINTEXT access mode. **Range**: N/A

Parameter	Type	Description
private_sasl_plaintext_domain_name	String	**Definition**: Private SASL_PLAINTEXT connection domain name. **Range**: N/A
public_plain_enable	Boolean	**Definition**: Whether the instance supports public plaintext access. **Range**: • **true**: Yes • **false**: No
public_plain_address	String	**Definition**: Connection addresses of Kafka public plaintext access. **Range**: N/A
public_plain_domain_name	String	**Definition**: Public plaintext connection domain name. **Range**: N/A
public_sasl_ssl_enable	Boolean	**Definition**: Whether the instance supports public SASL_SSL access. **Range**: • **true**: Yes • **false**: No
public_sasl_ssl_address	String	**Definition**: Connection addresses of the Kafka public SASL_SSL access mode. **Range**: N/A
public_sasl_ssl_domain_name	String	**Definition**: Public SASL_SSL connection domain name. **Range**: N/A

Parameter	Type	Description
public_sasl_plaintext_enable	Boolean	**Definition**: Whether the instance supports public SASL_PLAINTEXT access. **Range**: • **true**: Yes • **false**: No
public_sasl_plaintext_address	String	**Definition**: Connection addresses of the Kafka public SASL_PLAINTEXT access mode. **Range**: N/A
public_sasl_plaintext_domain_name	String	**Definition**: Public SASL_PLAINTEXT connection domain name. **Range**: N/A

Table 5-16 TagEntity

Parameter	Type	Description
key	String	**Definition**: Tag key. **Constraints**: • Cannot be left blank. • Must be unique for the same instance. • Can contain 1 to 128 characters. • Can contain letters, digits, spaces, and special characters _.:=+-@ • Cannot start with ***sys*** • Cannot start or end with a space. **Range**: N/A **Default Value**: N/A

Parameter	Type	Description
value	String	**Definition**: Tag value. **Constraints**: • Can contain 0 to 255 characters. • Can contain letters, digits, spaces, and special characters _.:=+-@ **Range**: N/A **Default Value**: N/A

Example Requests

Querying an instance

```
GET https://{endpoint}/v2/{project_id}/instances/{instance_id}
```

Example Responses

Status code: 200

Specified instance queried.


```
{
  "name" : "kafka-2085975099",
  "engine" : "kafka",
  "port" : 9092,
  "status" : "RUNNING",
  "description" : "",
  "type" : "cluster",
  "specification" : "kafka.2u4g.cluster * 3 broker",
  "engine_version" : 2.7,
  "connect_address" : "192.168.0.100,192.168.0.61,192.168.0.72",
  "instance_id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx",
  "resource_spec_code" : "",
  "charging_mode" : 1,
  "vpc_id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx",
  "vpc_name" : "dms-test",
  "created_at" : "1585618587087",
  "product_id" : "c6.2u4g.cluster",
  "security_group_id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx",
  "security_group_name" : "Sys-default",
  "subnet_id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx",
  "available_zones" : [ "38b0f7a602344246bcb0da47b5d548e7" ],
  "available_zone_names" : [ "AZ1" ],
  "user_id" : "xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "user_name" : "paas_dms",
  "maintain_begin" : "02:00:00",
  "maintain_end" : "06:00:00",
  "enable_log_collection" : false,
  "new_auth_cert" : false,
  "storage_space" : 492,
  "total_storage_space" : 600,
  "used_storage_space" : 25,
  "partition_num" : "750",
  "enable_publicip" : false,
```



```
  "ssl_enable" : false,
  "broker_ssl_enable" : false,
  "cert_replaced" : false,
  "management_connect_address" : "https://192.168.0.100:9999",
  "cross_vpc_info" : "{\"192.168.0.61\":{\"advertised_ip\":\"192.168.0.61\",\"port\":9011,\"port_id\":\"xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx\"},\"192.168.0.72\":{\"advertised_ip\":\"192.168.0.72\",\"port\":9011,\"port_id\":\"xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx\"},\"192.168.0.100\":{\"advertised_ip\":\"192.168.0.100\",\"port\":9011,\"port_id\":\"xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx\"}}",
  "storage_resource_id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx",
  "storage_spec_code" : "dms.physical.storage.ultra",
  "service_type" : "advanced",
  "storage_type" : "hec",
  "enterprise_project_id" : "0",
  "is_logical_volume" : true,
  "extend_times" : 0,
  "retention_policy" : "produce_reject",
  "ipv6_enable" : false,
  "ipv6_connect_addresses" : [ ],
  "connector_enable" : false,
  "connector_node_num" : 0,
  "connector_id" : "",
  "rest_enable" : false,
  "rest_connect_address" : "",
  "kafka_public_status" : "closed",
  "public_bandwidth" : 0,
  "message_query_inst_enable" : true,
  "vpc_client_plain" : false,
  "support_features" : "kafka.new.pod.port,feature.physerver.kafka.topic.modify,feature.physerver.kafka.topic.accesspolicy,message_trace_enable,features.pod.token.access,feature.physerver.kafka.pulbic.dynamic,roma_app_enable,features.log.collection,auto_topic_switch,feature.physerver.kafka.user.manager",
  "trace_enable" : false,
  "agent_enable" : false,
  "pod_connect_address" : "100.86.75.15:9080,100.86.142.77:9080,100.86.250.167:9080",
  "disk_encrypted" : false,
  "kafka_private_connect_address" : "192.168.0.61:9092,192.168.0.100:9092,192.168.0.72:9092",
  "enable_auto_topic" : false,
  "new_spec_billing_enable" : false,
  "ces_version" : "linux",
  "port_protocols" : "{\"private_plain_enable\": true,\"private_plain_address\": \"192.xxx.xxx.xxx:9092,192.xxx.xxx.xxx:9092,192.xxx.xxx.xxx:9092\",\"private_sasl_ssl_enable\": true,\"private_sasl_ssl_address\": \"192.xxx.xxx.xxx:9093,192.xxx.xxx.xxx:9093,192.xxx.xxx.xxx:9093\",\"private_sasl_plaintext_enable\": false,\"private_sasl_plaintext_address\": \"\",\"public_plain_enable\": true,\"public_plain_address\": \"100.xxx.xxx.xxx:9094,100.xxx.xxx.xxx:9094,100.xxx.xxx.xxx:9094\",\"public_sasl_ssl_enable\": true,\"public_sasl_ssl_address\": \"100.xxx.xxx.xxx:9095,100.xxx.xxx.xxx:9095,100.xxx.xxx.xxx:9095\",\"public_sasl_plaintext_enable\": false,\"public_sasl_plaintext_address\": \"\"}"
}
```


Status Codes

Status Code	Description
200	Specified instance queried.

Error Codes

See **Error Codes**.

5.1.4 Deleting an Instance

Function

This API is used to delete an instance to release all the resources occupied by it.

URI

DELETE /v2/{project_id}/instances/{instance_id}

Table 5-17 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain it, see **Obtaining a Project ID**.
instance_id	Yes	String	Instance ID.

Request Parameters

None

Response Parameters

Status code: 204

The specified instance is deleted successfully.

None

Example Requests

Deleting an instance

```
DELETE https://{endpoint}/v2/{project_id}/instances/{instance_id}
```

Example Responses

None

Status Codes

Status Code	Description
204	The specified instance is deleted successfully.

Error Codes

See **Error Codes**.

5.1.5 Modifying Instance Information

Function

This API is used to modify the instance information.

URI

PUT /v2/{project_id}/instances/{instance_id}

Table 5-18 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain it, see **Obtaining a Project ID**.
instance_id	Yes	String	Instance ID.

Request Parameters

Table 5-19 Request body parameters

Parameter	Mandatory	Type	Description
name	No	String	Instance name. An instance name starts with a letter, consists of 4 to 64 characters, and can contain only letters, digits, underscores (_), and hyphens (-).
description	No	String	Description of an instance. The description supports up to 1024 characters. **NOTE** The backslash () and quotation mark (") are special characters for JSON messages. When using these characters in a parameter value, add the escape character () before the characters, for example, \ and ".
maintain_begin	No	String	Time at which the maintenance window starts. The format is HH:mm:ss.

Parameter	Mandatory	Type	Description
maintain_end	No	String	Time at which the maintenance window ends. The format is HH:mm:ss.
security_group_id	No	String	Security group ID. You can call the API for querying security groups to obtain the security group ID. The security group ID is in the response body. For details, see *Virtual Private Cloud API Reference*.
retention_policy	No	String	Capacity threshold policy. Options: • **produce_reject**: New messages cannot be created. • **time_base**: The earliest messages are deleted.
enterprise_project_id	No	String	Enterprise project.

Response Parameters

Status code: 204

The instance information is modified successfully.

None

Example Requests

- Modifying the name and description of an instance.

```
PUT https://{endpoint}/v2/{project_id}/instances/{instance_id}

{
  "name" : "kafka001",
  "description" : "kafka description"
}
```

- Modifying the name, description, and maintenance time window of an instance.

```
PUT https://{endpoint}/v2/{project_id}/instances/{instance_id}

{
  "name" : "dms002",
  "description" : "instance description",
  "maintain_begin" : "02:00:00",
  "maintain_end" : "06:00:00"
}
```


- Changing the capacity threshold policy.

```
PUT https://{endpoint}/v2/{project_id}/instances/{instance_id}

{
  "retention_policy" : "time_base"
}
```

Example Responses

None

Status Codes

Status Code	Description
204	The instance information is modified successfully.

Error Codes

See **Error Codes**.

5.1.6 Batch Restarting or Deleting Instances

Function

This API is used to restart or delete instances in batches.

When an instance is being restarted, message retrieval and creation requests of the client will be rejected.

Deleting an instance will delete the data in the instance without any backup. Exercise caution when performing this operation.

URI

POST /v2/{project_id}/instances/action

Table 5-20 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain it, see **Obtaining a Project ID**.

Request Parameters

Table 5-21 Request body parameters

Parameter	Mandatory	Type	Description
instances	No	Array of strings	List of instance IDs.
action	Yes	String	Operation to be performed on instances. The value can be **restart** or **delete**.
all_failure	No	String	Value **kafka** indicates all Kafka instances that fail to be created are to be deleted.
force_delete	No	Boolean	Whether to forcibly delete an instance. A forcibly deleted instance does not enter Recycle Bin.

Response Parameters

Status code: 200

Table 5-22 Response body parameters

Parameter	Type	Description
results	Array of **results** objects	Result of instance modification.

Table 5-23 results

Parameter	Type	Description
result	String	Operation result. • **success**: The operation succeeded. • **failed**: The operation failed.
instance	String	Instance ID.

Status code: 204

All Kafka instances that fail to be created are deleted successfully.

Example Requests

- Restarting instances in batches.

```
POST https://{endpoint}/v2/{project_id}/instances/action

{
  "action" : "restart",
  "instances" : [ "54602a9d-5e22-4239-9123-77e350df4a34", "7166cdea-dbad-4d79-9610-7163e6f8b640" ]
}
```

- Deleting instances in batches.

```
POST https://{endpoint}/v2/{project_id}/instances/action

{
  "action" : "delete",
  "instances" : [ "54602a9d-5e22-4239-9123-77e350df4a34", "7166cdea-dbad-4d79-9610-7163e6f8b640" ]
}
```

- Deleting all instances that fail to be created.

```
POST https://{endpoint}/v2/{project_id}/instances/action

{
  "action" : "delete",
  "all_failure" : "kafka"
}
```

Example Responses

Status code: 200

The instances are restarted or deleted successfully.

```
{
  "results" : [ {
    "result" : "success",
    "instance" : "019cacb7-4ff0-4d3c-9f33-f5f7b7fdc0e6"
  } ]
}
```

Status Codes

Status Code	Description
200	The instances are restarted or deleted successfully.
204	All Kafka instances that fail to be created are deleted successfully.

Error Codes

See **Error Codes**.

5.1.7 Obtaining Instance Configurations

Function

This API is used to obtain instance configurations.

URI

GET /v2/{project_id}/instances/{instance_id}/configs

Table 5-24 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain it, see **Obtaining a Project ID**.
instance_id	Yes	String	Instance ID.

Request Parameters

None

Response Parameters

Status code: 200

Table 5-25 Response body parameters

Parameter	Type	Description
kafka_configs	Array of **InstanceConfig** objects	Kafka configurations.

Table 5-26 InstanceConfig

Parameter	Type	Description
name	String	Configuration name.
valid_values	String	Valid value.
default_value	String	Default value.
config_type	String	Configuration type. The value can be **static** or **dynamic**.
value	String	Current value.
value_type	String	Value type.

Example Requests

```
GET https://{endpoint}/v2/{project_id}/instances/{instance_id}/configs
```

Example Responses

Status code: 200

Configuration obtained.


```
{
  "kafka_configs" : [ {
    "name" : "min.insync.replicas",
    "valid_values" : "1~3",
    "default_value" : "1",
    "config_type" : "dynamic",
    "value" : "1",
    "value_type" : "integer"
  }, {
    "name" : "message.max.bytes",
    "valid_values" : "0~10485760",
    "default_value" : "10485760",
    "config_type" : "dynamic",
    "value" : "10485760",
    "value_type" : "integer"
  }, {
    "name" : "auto.create.groups.enable",
    "valid_values" : "true,false",
    "default_value" : "true",
    "config_type" : "dynamic",
    "value" : "true",
    "value_type" : "enum"
  }, {
    "name" : "connections.max.idle.ms",
    "valid_values" : "5000~600000",
    "default_value" : "600000",
    "config_type" : "static",
    "value" : "600000",
    "value_type" : "integer"
  }, {
    "name" : "log.retention.hours",
    "valid_values" : "1~168",
    "default_value" : "72",
    "config_type" : "static",
    "value" : "72",
    "value_type" : "integer"
  }, {
    "name" : "max.connections.per.ip",
    "valid_values" : "100~20000",
    "default_value" : "1000",
    "config_type" : "dynamic",
    "value" : "1000",
    "value_type" : "integer"
  }, {
    "name" : "group.max.session.timeout.ms",
    "valid_values" : "6000~1800000",
    "default_value" : "1800000",
    "config_type" : "static",
    "value" : "1800000",
    "value_type" : "integer"
  }, {
    "name" : "unclean.leader.election.enable",
    "valid_values" : "true,false",
    "default_value" : "false",
    "config_type" : "dynamic",
    "value" : "false",
    "value_type" : "enum"
  }, {
    "name" : "default.replication.factor",
    "valid_values" : "1~3",
    "default_value" : "3",
    "config_type" : "static",
    "value" : "3",
```



```
    "value_type" : "integer"
  }, {
    "name" : "offsets.retention.minutes",
    "valid_values" : "1440~30240",
    "default_value" : "20160",
    "config_type" : "dynamic",
    "value" : "20160",
    "value_type" : "integer"
  }, {
    "name" : "num.partitions",
    "valid_values" : "1~200",
    "default_value" : "3",
    "config_type" : "static",
    "value" : "3",
    "value_type" : "integer"
  }, {
    "name" : "group.min.session.timeout.ms",
    "valid_values" : "6000~300000",
    "default_value" : "6000",
    "config_type" : "static",
    "value" : "6000",
    "value_type" : "integer"
  }, {
    "name" : "allow.everyone.if.no.acl.found",
    "valid_values" : "true,false",
    "default_value" : "true",
    "config_type" : "static",
    "value" : "true",
    "value_type" : "enum"
  } ]
}
```


Status Codes

Status Code	Description
200	Configuration obtained.

Error Codes

See **Error Codes**.

5.1.8 Modifying Instance Configurations

Function

This API is used to modify instance configurations.

URI

PUT /v2/{project_id}/instances/{instance_id}/configs

Table 5-27 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain it, see **Obtaining a Project ID**.
instance_id	Yes	String	Instance ID.

Request Parameters

Table 5-28 Request body parameters

Parameter	Mandatory	Type	Description
kafka_configs	No	Array of **ModifyInstanceConfig** objects	Configurations to be modified.

Table 5-29 ModifyInstanceConfig

Parameter	Mandatory	Type	Description
name	No	String	Names of configurations to be modified.
value	No	String	New value of the modified configuration.

Response Parameters

Status code: 200

Table 5-30 Response body parameters

Parameter	Type	Description
job_id	String	Configuration modification task ID.
dynamic_config	Integer	Number of dynamic configuration parameters to be modified.
static_config	Integer	Number of static configuration parameters to be modified.

Example Requests

Modifying the threshold for idle connection timeout and the log deletion interval.

```
PUT https://{endpoint}/v2/{project_id}/instances/{instance_id}/configs

{
  "kafka_configs" : [ {
    "name" : "connections.max.idle.ms",
    "value" : "500000"
  }, {
    "name" : "log.retention.hours",
    "value" : "66"
  } ]
}
```

Example Responses

Status code: 200

Configuration modified.

```
{
  "job_id" : "8abfa7b38ba79a20018ba9afc550576a",
  "dynamic_config" : 0,
  "static_config" : 2
}
```

Status Codes

Status Code	Description
200	Configuration modified.

Error Codes

See **Error Codes**.

5.2 Instance Management

5.2.1 Resetting the Password

Function

This API is used to reset the password for an instance with SSL enabled.

URI

POST /v2/{project_id}/instances/{instance_id}/password

Table 5-31 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain it, see **Obtaining a Project ID**.
instance_id	Yes	String	Instance ID.

Request Parameters

Table 5-32 Request body parameters

Parameter	Mandatory	Type	Description
new_password	Yes	String	The password can contain 8 to 32 characters, and must contain at least three types of the following characters: • Uppercase letters • Lowercase letters • Digits • Special characters`~!@#$ %^&*()-_=+|[{}];:'",<.>/? and spaces, and cannot start with a hyphen (-).

Response Parameters

Status code: 204

The password is reset successfully.

None

Example Requests

Resetting a password

```
POST https://{endpoint}/v2/{project_id}/instances/{instance_id}/password

{
  "new_password" : "********"
}
```

Example Responses

None

Status Codes

Status Code	Description
204	The password is reset successfully.

Error Codes

See **Error Codes**.

5.2.2 Resetting Kafka Manager Password

Function

This API is used to reset the Kafka Manager password.

URI

PUT /v2/{project_id}/instances/{instance_id}/kafka-manager-password

Table 5-33 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain it, see **Obtaining a Project ID**.
instance_id	Yes	String	Instance ID.

Request Parameters

Table 5-34 Request body parameters

Parameter	Mandatory	Type	Description
new_password	No	String	The password can contain 8 to 32 characters, and must contain at least three types of the following characters: • Uppercase letters • Lowercase letters • Digits • Special characters`~!@#$ %^&*()-_=+|[{}];:'"",<.>/? and spaces, and cannot start with a hyphen (-).

Response Parameters

Status code: 204

The password is reset successfully.

None

Example Requests

Resetting Kafka Manager password

```
PUT https://{endpoint}/v2/{project_id}/instances/{instance_id}/kafka-manager-password

{
  "new_password" : "********"
}
```

Example Responses

None

Status Codes

Status Code	Description
204	The password is reset successfully.

Error Codes

See **Error Codes**.

5.2.3 Restarting Kafka Manager

Function

This API is used to restart Kafka Manager.

URI

PUT /v2/{project_id}/instances/{instance_id}/restart-kafka-manager

Table 5-35 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain it, see **Obtaining a Project ID**.

Parameter	Mandatory	Type	Description
instance_id	Yes	String	Instance ID.

Request Parameters

None

Response Parameters

Status code: 200

Table 5-36 Response body parameters

Parameter	Type	Description
result	String	Execution result.
instance_id	String	Instance ID.

Example Requests

Restarting Kafka Manager

```
PUT https://{endpoint}/v2/{project_id}/instances/{instance_id}/restart-kafka-manager
```

Example Responses

Status code: 200

Kafka Manager is restarted successfully.

```
{
  "result" : "success",
  "instance_id" : "605cd78c-92dc-4335-8bae-43677f31fd6c"
}
```

Status Codes

Status Code	Description
200	Kafka Manager is restarted successfully.

Error Codes

See **Error Codes**.

5.2.4 Modifying the Private IP Address for Cross-VPC Access

Function

This API is used to modify the private IP address for cross-VPC access.

URI

POST /v2/{project_id}/instances/{instance_id}/crossvpc/modify

Table 5-37 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain it, see **Obtaining a Project ID**.
instance_id	Yes	String	Instance ID.

Request Parameters

Table 5-38 Request body parameters

Parameter	Mandatory	Type	Description
advertised_ip_contents	Yes	Map<String,String>	User-defined advertised_ip_contents key-value pair. The key is the listeners IP address. The value is the advertised.listeners IP address or domain name. **NOTE** Fill in the items that are not modified during IP address change.

Response Parameters

Status code: 200

Table 5-39 Response body parameters

Parameter	Type	Description
success	Boolean	Result of the cross-VPC access modification.
results	Array of **results** objects	Details of the result of the cross-VPC access modification.

Table 5-40 results

Parameter	Type	Description
advertised_ip	String	advertised.listeners IP address or domain name.
success	Boolean	Status of the cross-VPC access modification.
ip	String	Listeners IP address.

Example Requests

Modifying the private IP address for cross-VPC access.

```
POST https://{endpoint}/v2/{project_id}/instances/{instance_id}/crossvpc/modify

{
  "advertised_ip_contents" : {
    "192.168.245.246" : "192.168.245.247",
    "192.168.197.36" : "192.168.197.38",
    "192.168.190.11" : "192.168.190.11"
  }
}
```

Example Responses

Status code: 200

The private IP address for cross-VPC access is modified successfully.

```
{
  "success" : true,
  "results" : [ {
    "advertised_ip" : "192.168.197.36",
    "success" : true,
    "ip" : "192.168.197.36"
  }, {
    "advertised_ip" : "192.168.190.11",
    "success" : true,
    "ip" : "192.168.190.11"
  }, {
    "advertised_ip" : "192.168.245.255",
    "success" : true,
    "ip" : "192.168.245.246"
  } ]
}
```

Status Codes

Status Code	Description
200	The private IP address for cross-VPC access is modified successfully.

Error Codes

See **Error Codes**.

5.2.5 Querying Kafka Cluster Metadata

Function

This API is used to query Kafka cluster metadata.

URI

GET /v2/{project_id}/instances/{instance_id}/management/cluster

Table 5-41 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: Project ID. For details, see **Obtaining a Project ID**. **Constraints**: N/A **Range**: N/A **Default Value**: N/A
instance_id	Yes	String	**Definition**: Instance ID. You can call the API for querying all instances to obtain the instance ID. The instance ID is in the response body. **Constraints**: N/A **Range**: N/A **Default Value**: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 5-42 Response body parameters

Parameter	Type	Description
cluster	**cluster** object	**Definition**: Cluster basic information.

Table 5-43 cluster

Parameter	Type	Description
controller	String	**Definition**: Controller ID. **Range**: N/A
brokers	Array of **brokers** objects	**Definition**: Node list.
topics_count	Integer	**Definition**: Number of topics. **Range**: N/A
partitions_count	Integer	**Definition**: Number of partitions. **Range**: N/A
online_partitions_count	Integer	**Definition**: Number of online partitions. **Range**: N/A

Parameter	Type	Description
replicas_count	Integer	**Definition**: Number of replicas. **Range**: N/A
isr_replicas_count	Integer	**Definition**: Total number of in-sync replicas (ISRs). **Range**: N/A
consumers_count	Integer	**Definition**: Number of consumer groups. **Range**: N/A

Table 5-44 brokers

Parameter	Type	Description
host	String	**Definition**: Node IP address. **Range**: N/A
port	Integer	**Definition**: Port. **Range**: N/A
broker_id	String	**Definition**: Node ID. **Range**: N/A
is_controller	Boolean	**Definition**: Whether the broker is a controller. **Range**: • **true**: Yes • **false**: No

Parameter	Type	Description
version	String	**Definition**: Server version. **Range**: • **1.1.0** • **2.3.0** • **2.7** • **3.x**
register_time	Long	**Definition**: Broker registration time, which is a Unix timestamp. **Range**: N/A
is_health	Boolean	**Definition**: Whether Kafka brokers can be connected. **Range**: • **true**: Yes • **false**: No

Example Requests

```
GET https://{endpoint}/v2/{project_id}/instances/{instance_id}/management/cluster
```

Example Responses

Status code: 200

Kafka cluster metadata is queried successfully.


```
{
  "cluster" : {
    "controller" : "2",
    "brokers" : [ {
      "host" : "192.168.0.159",
      "port" : 9093,
      "broker_id" : "0",
      "is_controller" : false,
      "version" : "1.1.0",
      "register_time" : 1588754647872,
      "is_health" : true
    }, {
      "host" : "192.168.0.48",
      "port" : 9093,
      "broker_id" : "1",
      "is_controller" : false,
      "version" : "1.1.0",
      "register_time" : 1588754647653,
      "is_health" : true
    }, {
      "host" : "192.168.0.212",
```



```
    "port" : 9093,
    "broker_id" : "2",
    "is_controller" : true,
    "version" : "1.1.0",
    "register_time" : 1588754647284,
    "is_health" : true
   } ],
   "topics_count" : 3,
   "partitions_count" : 9,
   "online_partitions_count" : 9,
   "replicas_count" : 27,
   "isr_replicas_count" : 27,
   "consumers_count" : 0
  }
}
```


Status Codes

Status Code	Description
200	Kafka cluster metadata is queried successfully.

Error Codes

See **Error Codes**.

5.2.6 Querying Coordinator Details of a Kafka Instance

Function

This API is used to query coordinator details of a Kafka instance.

URI

GET /v2/{project_id}/instances/{instance_id}/management/coordinators

Table 5-45 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: Project ID. For details, see **Obtaining a Project ID**. **Constraints**: N/A **Range**: N/A **Default Value**: N/A

Parameter	Mandatory	Type	Description
instance_id	Yes	String	**Definition**: Instance ID. You can call the API for querying all instances to obtain the instance ID. The instance ID is in the response body. **Constraints**: N/A **Range**: N/A **Default Value**: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 5-46 Response body parameters

Parameter	Type	Description
coordinators	Array of **coordinators** objects	**Definition**: List of coordinators of all consumer groups.

Table 5-47 coordinators

Parameter	Type	Description
group_id	String	**Definition**: Consumer group ID. **Range**: N/A
id	Integer	**Definition**: Broker ID of the coordinator. **Range**: N/A

Parameter	Type	Description
host	String	**Definition**: Broker address of the coordinator. **Range**: N/A
port	Integer	**Definition**: Port. **Range**: N/A

Example Requests

```
GET https://{endpoint}/v2/{project_id}/instances/{instance_id}/management/coordinators
```

Example Responses

Status code: 200

Coordinator details of the Kafka instance are queried successfully.

```
{
  "coordinators" : [ {
    "group_id" : "XXXX",
    "id" : 2,
    "host" : "172.31.1.15",
    "port" : 9091
  }, {
    "group_id" : "XXXX",
    "id" : 2,
    "host" : "172.31.1.15",
    "port" : 9092
  }, {
    "group_id" : "XXXX",
    "id" : 2,
    "host" : "172.31.1.15",
    "port" : 9092
  } ]
}
```

Status Codes

Status Code	Description
200	Coordinator details of the Kafka instance are queried successfully.

Error Codes

See **Error Codes**.

5.2.7 Querying the Disk Usage Status of Topics

Function

This API is used to query the broker disk usage of topics.

URI

GET /v2/{project_id}/instances/{instance_id}/topics/diskusage

Table 5-48 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain it, see **Obtaining a Project ID**.
instance_id	Yes	String	Instance ID.

Table 5-49 Query Parameters

Parameter	Mandatory	Type	Description
minSize	No	String	Querying partitions by the used disk space. Options: 1 KB, 1 MB and 1 GB. Default value: 1 GB.
top	No	String	**Definition**: Querying partitions by top disk usage. **Constraints**: N/A **Range**: 1–1000 **Default Value**: N/A
percentage	No	String	Querying partitions by the percentage of the used disk space.

Request Parameters

None

Response Parameters

Status code: 200

Table 5-50 Response body parameters

Parameter	Type	Description
broker_list	Array of **DiskusageEntity** objects	Broker list.

Table 5-51 DiskusageEntity

Parameter	Type	Description
broker_name	String	Broker name.
data_disk_size	String	Disk capacity.
data_disk_use	String	Used disk space.
data_disk_free	String	Remaining disk space.
data_disk_use_percentage	String	Message label.
status	String	Message label.
topic_list	Array of **DiskusageTopicEntity** objects	Disk usage list of a topic.

Table 5-52 DiskusageTopicEntity

Parameter	Type	Description
size	String	Disk usage.
topic_name	String	Topic name.
topic_partition	String	Partition.
percentage	Double	Percentage of used disk space.

Example Requests

Querying the disk usage status of topics

```
GET https://{endpoint}/v2/{project_id}/instances/{instance_id}/topics/diskusage
```


Example Responses

Status code: 200

The query is successful.


```
{
  "broker_list" : [ {
    "broker_name" : "broker-0",
    "data_disk_size" : "66G",
    "data_disk_use" : "53M",
    "data_disk_free" : "63G",
    "data_disk_use_percentage" : "1",
    "status" : "Success get info",
    "topic_list" : [ {
      "size" : "12K",
      "topic_name" : "topic-test",
      "topic_partition" : "2",
      "percentage" : 1.7339533025568183E-5
    }, {
      "size" : "12K",
      "topic_name" : "__consumer_offsets",
      "topic_partition" : "4",
      "percentage" : 1.7339533025568183E-5
    }, {
      "size" : "12K",
      "topic_name" : "__consumer_offsets",
      "topic_partition" : "3",
      "percentage" : 1.7339533025568183E-5
    }, {
      "size" : "8.0K",
      "topic_name" : "__trace",
      "topic_partition" : "6",
      "percentage" : 1.1559688683712121E-5
    }, {
      "size" : "8.0K",
      "topic_name" : "__trace",
      "topic_partition" : "4",
      "percentage" : 1.1559688683712121E-5
    }, {
      "size" : "8.0K",
      "topic_name" : "__trace",
      "topic_partition" : "2",
      "percentage" : 1.1559688683712121E-5
    }, {
      "size" : "8.0K",
      "topic_name" : "__trace",
      "topic_partition" : "0",
      "percentage" : 1.1559688683712121E-5
    }, {
      "size" : "8.0K",
      "topic_name" : "topic-test",
      "topic_partition" : "0",
      "percentage" : 1.1559688683712121E-5
    }, {
      "size" : "8.0K",
      "topic_name" : "topic-1568537362",
      "topic_partition" : "2",
      "percentage" : 1.1559688683712121E-5
    }, {
      "size" : "8.0K",
      "topic_name" : "__consumer_offsets",
      "topic_partition" : "7",
      "percentage" : 1.1559688683712121E-5
    } ]
  } ]
}
```


Status Codes

Status Code	Description
200	The query is successful.

Error Codes

See **Error Codes**.

5.2.8 Disabling Kafka Manager

Function

This API is used to disable Kafka Manager. After Kafka Manager is disabled, the related management APIs will become unavailable.

URI

DELETE /v2/{project_id}/kafka/instances/{instance_id}/management

Table 5-53 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain it, see **Obtaining a Project ID**.
instance_id	Yes	String	Instance ID.

Request Parameters

None

Response Parameters

Status code: 200

Successful.

None

Example Requests

```
DELETE https://{endpoint}/v2/{project_id}/kafka/instances/{instance_id}/management
```

Example Responses

None

Status Codes

Status Code	Description
200	Successful.

Error Codes

See **Error Codes**.

5.2.9 Deleting a User or Client Quota

Function

This API is used to submit a task of deleting a user or client quota from a Kafka instance. A job_id is returned if the task succeeds.

URI

DELETE /v2/kafka/{project_id}/instances/{instance_id}/kafka-user-client-quota

Table 5-54 Path Parameters

Parameter	Mandatory	Type	Description
instance_id	Yes	String	Instance ID.
project_id	Yes	String	Project ID. For details, see **Obtaining a Project ID**.

Request Parameters

Table 5-55 Request body parameters

Parameter	Mandatory	Type	Description
user	No	String	Username. Either the username or the client ID must be specified if the quotas are not applied to all users or clients.
client	No	String	Client ID. Either the username or the client ID must be specified if the quotas are not applied to all users or clients.

Parameter	Mandatory	Type	Description
user-default	No	Boolean	Whether to use the default user settings. • Yes: Apply the quota to all users. In this case, the username cannot be set. • No: Apply the quota to specific users. In this case, set the username.
client-default	No	Boolean	Whether to use the default client settings. • Yes: Apply the quota to all clients. In this case, the client ID cannot be set. • No: Apply the quota to specific clients. In this case, set the client ID.

Response Parameters

Status code: 200

Table 5-56 Response body parameters

Parameter	Type	Description
job_id	String	ID of the task for deleting quotas.

Example Requests

Deleting a user or client quota

```
DELETE https://{endpoint}/v2/kafka/{project_id}/instances/{instance_id}/kafka-user-client-quota

{
  "user" : "",
  "client" : "",
  "user-default" : false,
  "client-default" : true
}
```

Example Responses

Status code: 200

User or client quotas deleted.

```
{
  "job_id" : "ff8080828bdc0f64018bdcadfd8f00d7"
}
```


Status Codes

Status Code	Description
200	User or client quotas deleted.

Error Codes

See **Error Codes**.

5.2.10 Querying User or Client Quotas

Function

This API is used to query quotas of a Kafka instance. A list of quotas is returned if the query succeeds.

URI

GET /v2/kafka/{project_id}/instances/{instance_id}/kafka-user-client-quota

Table 5-57 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see **Obtaining a Project ID**.
instance_id	Yes	String	Instance ID.

Table 5-58 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Offset. The records after this offset will be queried.
limit	No	Integer	Maximum number of records that can be returned.

Request Parameters

None

Response Parameters

Status code: 200

Table 5-59 Response body parameters

Parameter	Type	Description
quotas	Array of **Quota** objects	Client quotas.
count	Integer	Number of user or client quotas.

Table 5-60 Quota

Parameter	Type	Description
user	String	Username. Either the username or the client ID must be specified if the quotas are not applied to all users or clients.
client	String	Client ID. Either the username or the client ID must be specified if the quotas are not applied to all users or clients.
user-default	Boolean	Whether to use the default user settings. • Yes: Apply the quota to all users. In this case, the username cannot be set. • No: Apply the quota to specific users. In this case, set the username.
client-default	Boolean	Whether to use the default client settings. • Yes: Apply the quota to all clients. In this case, the client ID cannot be set. • No: Apply the quota to specific clients. In this case, set the client ID.
producer-byte-rate	Long	Production rate limit. The unit is byte/s.
consumer-byte-rate	Long	Consumption rate limit. The unit is byte/s. **NOTE** Either the production rate limit or the consumption rate limit must be specified.

Example Requests

None

Example Responses

Status code: 200

Client quotas queried.

```
{
  "quotas" : [ {
    "user" : "",
    "client" : "",
    "user-default" : false,
    "client-default" : true,
    "producer-byte-rate" : 2097152,
    "consumer-byte-rate" : 2097152
  } ],
  "count" : 1
}
```

Status Codes

Status Code	Description
200	Client quotas queried.

Error Codes

See **Error Codes**.

5.2.11 Creating User or Client Quotas

Function

This API is used to submit a task to create user or client quotas for a Kafka instance. A job_id is returned if the task succeeds.

URI

POST /v2/kafka/{project_id}/instances/{instance_id}/kafka-user-client-quota

Table 5-61 Path Parameters

Parameter	Mandatory	Type	Description
instance_id	Yes	String	Instance ID.
project_id	Yes	String	Project ID. For details, see **Obtaining a Project ID**.

Request Parameters

Table 5-62 Request body parameters

Parameter	Mandatory	Type	Description
user	No	String	Username. Either the username or the client ID must be specified if the quotas are not applied to all users or clients.
client	No	String	Client ID. Either the username or the client ID must be specified if the quotas are not applied to all users or clients.
user-default	No	Boolean	Whether to use the default user settings. • Yes: Apply the quota to all users. In this case, the username cannot be set. • No: Apply the quota to specific users. In this case, set the username.
client-default	No	Boolean	Whether to use the default client settings. • Yes: Apply the quota to all clients. In this case, the client ID cannot be set. • No: Apply the quota to specific clients. In this case, set the client ID.
producer-byte-rate	No	Long	Production rate limit. The unit is byte/s.
consumer-byte-rate	No	Long	Consumption rate limit. The unit is byte/s. **NOTE** Either the production rate limit or the consumption rate limit must be specified.

Response Parameters

Status code: 200

Table 5-63 Response body parameters

Parameter	Type	Description
job_id	String	ID of the task for creating quotas.

Example Requests

Creating user or client quotas

```
POST https://{endpoint}/v2/kafka/{project_id}/instances/{instance_id}/kafka-user-client-quota

{
  "user" : "",
  "client" : "",
  "user-default" : false,
  "client-default" : true,
  "producer-byte-rate" : 3145728,
  "consumer-byte-rate" : 2097152
}
```

Example Responses

Status code: 200

User or client quotas created.

```
{
  "job_id" : "ff8080828bdc0f64018bdcadfd8f00d7"
}
```

Status Codes

Status Code	Description
200	User or client quotas created.

Error Codes

See **Error Codes**.

5.2.12 Modifying User or Client Quotas

Function

This API is used to submit a task to modify user or client quotas of a Kafka instance. A job_id is returned if the task succeeds.

URI

PUT /v2/kafka/{project_id}/instances/{instance_id}/kafka-user-client-quota

Table 5-64 Path Parameters

Parameter	Mandatory	Type	Description
instance_id	Yes	String	Instance ID.
project_id	Yes	String	Project ID. For details, see **Obtaining a Project ID**.

Request Parameters

Table 5-65 Request body parameters

Parameter	Mandatory	Type	Description
user	No	String	Username. Either the username or the client ID must be specified if the quotas are not applied to all users or clients.
client	No	String	Client ID. Either the username or the client ID must be specified if the quotas are not applied to all users or clients.
user-default	No	Boolean	Whether to use the default user settings. • Yes: Apply the quota to all users. In this case, the username cannot be set. • No: Apply the quota to specific users. In this case, set the username.
client-default	No	Boolean	Whether to use the default client settings. • Yes: Apply the quota to all clients. In this case, the client ID cannot be set. • No: Apply the quota to specific clients. In this case, set the client ID.
producer-byte-rate	No	Long	Production rate limit. The unit is byte/s.

Parameter	Mandatory	Type	Description
consumer-byte-rate	No	Long	Consumption rate limit. The unit is byte/s. **NOTE** Either the production rate limit or the consumption rate limit must be specified.

Response Parameters

Status code: 200

Table 5-66 Response body parameters

Parameter	Type	Description
job_id	String	ID of the task for modifying quotas.

Example Requests

Modifying user or client quotas

```
PUT https://{endpoint}/v2/kafka/{project_id}/instances/{instance_id}/kafka-user-client-quota

{
  "user" : "",
  "client" : "",
  "user-default" : false,
  "client-default" : true,
  "producer-byte-rate" : 3145728,
  "consumer-byte-rate" : 2097152
}
```

Example Responses

Status code: 200

User or client quotas modified.

```
{
  "job_id" : "8abfa7b38ba79a20018ba9afc550576a"
}
```

Status Codes

Status Code	Description
200	User or client quotas modified.

Error Codes

See **Error Codes**.

5.2.13 Querying Kafka Instance Rebalancing Log Details

Function

This API is used to query rebalancing log details of a Kafka instance.

URI

GET /v2/kafka/{project_id}/instances/{instance_id}/log/rebalance-log

Table 5-67 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see **Obtaining a Project ID**.
instance_id	Yes	String	Instance ID.

Request Parameters

None

Response Parameters

Status code: 200

Table 5-68 Response body parameters

Parameter	Type	Description
id	String	Log ID.
instanceId	String	Instance ID.
status	String	Status.
logStreamId	String	Log stream ID.
logGroupId	String	Log group ID.
dashboardId	String	Dashboard ID.
createAt	String	Creation time.
updateAt	String	Update time.

Example Requests

```
GET https://{endpoint}/v2/kafka/{project_id}/instances/{instance_id}/log/rebalance-log
```

Example Responses

Status code: 200

Successful

```
{
  "id" : "b430433d91233c4901919d27719d0a72",
  "instanceId" : "2150dbb7-41a1-4265-9470-92ffd8790079",
  "status" : "OPEN",
  "logStreamId" : "2150dbb7-41a1-4265-9470-92ffd8790079",
  "logGroupId" : "d2388290-d99b-4903-9436-6d98aea40faf",
  "dashboardId" : null,
  "createAt" : 1724918488060,
  "updateAt" : 1724918488060
}
```

Status code: 400

Invalid request parameter.

```
{
  "error_code" : "DMS.00400800",
  "error_message" : "Invalid parameters in the request."
}
```

Status Codes

Status Code	Description
200	Successful
400	Invalid request parameter.

Error Codes

See **Error Codes**.

5.2.14 Enabling Kafka Instance Rebalancing Logging

Function

This API is used to enable Kafka instance rebalancing logging.

URI

POST /v2/kafka/{project_id}/instances/{instance_id}/log/rebalance-log

Table 5-69 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see **Obtaining a Project ID**.
instance_id	Yes	String	Instance ID.

Request Parameters

None

Response Parameters

Status code: 200

Table 5-70 Response body parameters

Parameter	Type	Description
job_id	String	Task ID.

Example Requests

```
POST https://{endpoint}/v2/kafka/{project_id}/instances/{instance_id}/log/rebalance-log
```

Example Responses

Status code: 200

Successful

```
{
  "job_id" : "8a2c259182ab0e9d0182ab1882560009"
}
```

Status Codes

Status Code	Description
200	Successful

Error Codes

See **Error Codes**.

5.2.15 Disabling Kafka Instance Rebalancing Logging

Function

This API is used to disable Kafka instance rebalancing logging.

URI

DELETE /v2/kafka/{project_id}/instances/{instance_id}/log/rebalance-log

Table 5-71 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see **Obtaining a Project ID**.
instance_id	Yes	String	Instance ID.

Request Parameters

None

Response Parameters

Status code: 200

Table 5-72 Response body parameters

Parameter	Type	Description
job_id	String	Task ID.

Example Requests

```
DELETE https://{endpoint}/v2/kafka/{project_id}/instances/{instance_id}/log/rebalance-log
```

Example Responses

Status code: 200

Successful

```
{
  "job_id" : "8a2c259182ab0e9d0182ab1882560009"
}
```

Status Codes

Status Code	Description
200	Successful

Error Codes

See **Error Codes**.

5.3 Specification Modification Management

5.3.1 Increasing Instance Specifications

Function

This API is used to modify instance specifications.

URI

POST /v2/{project_id}/kafka/instances/{instance_id}/extend

Table 5-73 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain it, see **Obtaining a Project ID**.
instance_id	Yes	String	Instance ID.

Request Parameters

Table 5-74 Request body parameters

Parameter	Mandatory	Type	Description
oper_type	Yes	String	Change type. Value: • **storage**: Expand the storage without changing the broker quantity. • **horizontal**: Add brokers without resizing the storage space of each broker. • **vertical**: Scale up the broker flavor without changing the broker quantity and storage.
new_storage_space	No	Integer	New storage space. This parameter is valid and mandatory when **oper_type** is set to **storage** or **horizontal**. Instance storage space = Number of brokers × Storage space of each broker. If **oper_type** is set to **storage**, the number of brokers remains unchanged, and the storage space of each broker must be expanded by at least 100 GB. If **oper_type** is set to **horizontal**, the storage space of each broker remains unchanged.
new_broker_num	No	Integer	This parameter is valid only when **oper_type** is set to **horizontal**. Value range: A maximum of 50 brokers are supported.
new_product_id	No	String	New product ID for scale-up. This parameter is valid and mandatory when **oper_type** is set to **vertical**. Obtain the product ID from **Querying Product Specifications List**.

Parameter	Mandatory	Type	Description
publicip_id	No	String	ID of the EIP bound to the instance. Use commas (,) to separate multiple EIP IDs. This parameter is mandatory when **oper_type** is set to **horizontal**.
tenant_ips	No	Array of strings	Specified IPv4 private IP addresses. The number of specified IP addresses must be less than or equal to the number of new brokers. If the number of specified IP addresses is less than the number of brokers, the unspecified brokers are randomly assigned private IP addresses.
second_tenant_subnet_id	No	String	New brokers use the standby subnet ID in instance expansion. This value is transferred when a standby subnet is used in instance expansion. Contact customer service to use the value.

Response Parameters

Status code: 200

Table 5-75 Response body parameters

Parameter	Type	Description
job_id	String	ID of the specification modification task.

Example Requests

- Expanding the storage space (pay-per-use)

```
POST https://{endpoint}/v2/{engine}/{project_id}/instances/{instance_id}/extend

{
```



```
  "oper_type" : "storage",
  "new_storage_space" : 600
}
```

- Adding brokers (pay-per-use)

```
POST https://{endpoint}/v2/{engine}/{project_id}/instances/{instance_id}/extend

{
  "oper_type" : "horizontal",
  "new_storage_space" : 1600,
  "new_broker_num" : 4,
  "tenant_ips" : [ "127.xx.xx.x", "127.xx.xx.x", "127.xx.xx.x" ]
}
```

- Increasing the broker flavor (pay-per-use)

```
POST https://{endpoint}/v2/{engine}/{project_id}/instances/{instance_id}/extend

{
  "oper_type" : "vertical",
  "new_product_id" : "c6.4u8g.cluster"
}
```

Example Responses

Status code: 200

Instance specifications increased.

```
{
  "job_id" : "93b94287-728d-4bb1-a158-cb66cb0854e7"
}
```

Status Codes

Status Code	Description
200	Instance specifications increased.

Error Codes

See **Error Codes**.

5.3.2 Querying Product Information for Instance Specification Modification

Function

This API is used to query the product information for instance specification modification.

URI

GET /v2/{project_id}/kafka/instances/{instance_id}/extend

Table 5-76 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain it, see **Obtaining a Project ID**.
instance_id	Yes	String	Instance ID.

Table 5-77 Query Parameters

Parameter	Mandatory	Type	Description
type	Yes	String	Product edition. • **advanced**: premium edition

Request Parameters

None

Response Parameters

Status code: 200

Table 5-78 Response body parameters

Parameter	Type	Description
engine	String	Message engine type: kafka.
versions	Array of strings	Versions supported by the message engine.
products	Array of **ExtendProductInfoEntity** objects	Product information for specification modification.

Table 5-79 ExtendProductInfoEntity

Parameter	Type	Description
type	String	Instance type.
product_id	String	Product ID.
ecs_flavor_id	String	ECS flavor used by the product.
arch_types	Array of strings	Supported CPU architectures.

Parameter	Type	Description
charging_mode	Array of strings	Supported billing modes.
ios	Array of **ExtendProductIosEntity** objects	Disk I/O information.
support_features	Array of **ExtendProductSupportFeaturesEntity** objects	Supported features.
properties	**ExtendProductPropertiesEntity** object	Product specification description.
available_zones	Array of strings	AZs where there are available resources.
unavailable_zones	Array of strings	AZs where resources are sold out.

Table 5-80 ExtendProductIosEntity

Parameter	Type	Description
io_spec	String	Storage I/O specification.
available_zones	Array of strings	AZs where there are available resources.
type	String	I/O type.
unavailable_zones	Array of strings	AZs where resources are sold out.

Table 5-81 ExtendProductSupportFeaturesEntity

Parameter	Type	Description
name	String	Feature name.
properties	Map<String,String>	Key-value pair of a feature.

Table 5-82 ExtendProductPropertiesEntity

Parameter	Type	Description
max_partition_per_broker	String	Maximum number of partitions of each broker.

Parameter	Type	Description
max_broker	String	Maximum number of brokers.
max_storage_per_node	String	Maximum storage space of each broker. Unit: GB.
max_consumer_per_broker	String	Maximum number of consumers of each broker.
min_broker	String	Minimum number of brokers.
max_bandwidth_per_broker	String	Maximum bandwidth of each broker.
min_storage_per_node	String	Minimum storage space of each broker. Unit: GB.
max_tps_per_broker	String	Maximum TPS of each broker.
product_alias	String	Alias of **product_id**.

Example Requests

Querying product information for instance specification modification

```
GET https://{endpoint}/v2/{engine}/{project_id}/instances/{instance_id}/extend?type={type}
```

Example Responses

Status code: 200

Successfully queried the product information for instance specification modification.


```
{
  "engine" : "kafka",
  "versions" : [ "1.1.0", "2.7" ],
  "products" : [ {
    "type" : "cluster",
    "product_id" : "c6.2u4g.cluster",
    "ecs_flavor_id" : "c3.large.2",
    "arch_types" : [ "X86" ],
    "charging_mode" : [ "monthly", "hourly" ],
    "ios" : [ {
      "io_spec" : "dms.physical.storage.high.v2",
      "available_zones" : [ "xxx" ],
      "type" : "evs",
      "unavailable_zones" : [ ]
    }, {
      "io_spec" : "dms.physical.storage.ultra.v2",
      "available_zones" : [ "xxx" ],
      "type" : "evs",
      "unavailable_zones" : [ ]
    } ],
    "support_features" : [ {
      "name" : "connector_obs",
      "properties" : {
        "max_task" : "10",
        "max_node" : "10",
```



```
      "min_task" : "1",
      "min_node" : "2"
    }
  } ],
  "properties" : {
    "max_partition_per_broker" : "250",
    "max_broker" : "30",
    "max_storage_per_node" : "10000",
    "max_consumer_per_broker" : "4000",
    "min_broker" : "3",
    "product_alias" : "kafka.2u4g.cluster",
    "max_bandwidth_per_broker" : "100",
    "min_storage_per_node" : "100",
    "max_tps_per_broker" : "30000"
  },
  "available_zones" : [ "xxx" ],
  "unavailable_zones" : [ ]
}, {
  "type" : "cluster",
  "product_id" : "c6.2u4g.cluster.dec",
  "ecs_flavor_id" : "c6.large.2",
  "arch_types" : [ "X86" ],
  "charging_mode" : [ "monthly", "hourly" ],
  "ios" : [ {
    "io_spec" : "dms.physical.storage.high.dss.v2",
    "available_zones" : [ "xxx" ],
    "type" : "evs",
    "unavailable_zones" : [ ]
  }, {
    "io_spec" : "dms.physical.storage.ultra.dss.v2",
    "available_zones" : [ "xxx" ],
    "type" : "evs",
    "unavailable_zones" : [ ]
  }, {
    "io_spec" : "dms.physical.storage.ultra.v2",
    "available_zones" : [ "xxx" ],
    "type" : "evs",
    "unavailable_zones" : [ ]
  }, {
    "io_spec" : "dms.physical.storage.high.v2",
    "available_zones" : [ "xxx" ],
    "type" : "evs",
    "unavailable_zones" : [ ]
  } ],
  "support_features" : [ {
    "name" : "connector_obs",
    "properties" : {
      "max_task" : "10",
      "max_node" : "10",
      "min_task" : "1",
      "min_node" : "2"
    }
  } ],
  "properties" : {
    "max_partition_per_broker" : "100",
    "max_broker" : "30",
    "max_storage_per_node" : "400",
    "max_consumer_per_broker" : "4000",
    "min_broker" : "3",
    "product_alias" : "kafka.2u4g.cluster.dec",
    "max_bandwidth_per_broker" : "100",
    "min_storage_per_node" : "100",
    "max_tps_per_broker" : "30000"
  },
  "available_zones" : [ ],
  "unavailable_zones" : [ "xxx" ]
}, {
  "type" : "cluster",
  "product_id" : "c6.4u8g.cluster",
```



```
  "ecs_flavor_id" : "c3.xlarge.2",
  "arch_types" : [ "X86" ],
  "charging_mode" : [ "monthly", "hourly" ],
  "ios" : [ {
    "io_spec" : "dms.physical.storage.high.v2",
    "available_zones" : [ "xxx" ],
    "type" : "evs",
    "unavailable_zones" : [ ]
  }, {
    "io_spec" : "dms.physical.storage.ultra.v2",
    "available_zones" : [ "xxx" ],
    "type" : "evs",
    "unavailable_zones" : [ ]
  } ],
  "support_features" : [ {
    "name" : "connector_obs",
    "properties" : {
      "max_task" : "10",
      "max_node" : "10",
      "min_task" : "1",
      "min_node" : "2"
    }
  } ],
  "properties" : {
    "max_partition_per_broker" : "500",
    "max_broker" : "30",
    "max_storage_per_node" : "20000",
    "max_consumer_per_broker" : "4000",
    "min_broker" : "3",
    "product_alias" : "kafka.4u8g.cluster",
    "max_bandwidth_per_broker" : "100",
    "min_storage_per_node" : "100",
    "max_tps_per_broker" : "100000"
  },
  "available_zones" : [ "xxx" ],
  "unavailable_zones" : [ ]
}, {
  "type" : "cluster",
  "product_id" : "c6.8u16g.cluster",
  "ecs_flavor_id" : "c3.2xlarge.2",
  "arch_types" : [ "X86" ],
  "charging_mode" : [ "monthly", "hourly" ],
  "ios" : [ {
    "io_spec" : "dms.physical.storage.high.v2",
    "available_zones" : [ "xxx" ],
    "type" : "evs",
    "unavailable_zones" : [ ]
  }, {
    "io_spec" : "dms.physical.storage.ultra.v2",
    "available_zones" : [ "xxx" ],
    "type" : "evs",
    "unavailable_zones" : [ ]
  } ],
  "support_features" : [ {
    "name" : "connector_obs",
    "properties" : {
      "max_task" : "10",
      "max_node" : "10",
      "min_task" : "1",
      "min_node" : "2"
    }
  } ],
  "properties" : {
    "max_partition_per_broker" : "1000",
    "max_broker" : "30",
    "max_storage_per_node" : "30000",
    "max_consumer_per_broker" : "4000",
    "min_broker" : "3",
    "product_alias" : "kafka.8u16g.cluster",
```



```
    "max_bandwidth_per_broker" : "100",
    "min_storage_per_node" : "100",
    "max_tps_per_broker" : "150000"
  },
  "available_zones" : [ "xxx" ],
  "unavailable_zones" : [ ]
}, {
  "type" : "cluster",
  "product_id" : "c6.12u24g.cluster",
  "ecs_flavor_id" : "c3.3xlarge.2",
  "arch_types" : [ "X86" ],
  "charging_mode" : [ "monthly", "hourly" ],
  "ios" : [ {
    "io_spec" : "dms.physical.storage.high.v2",
    "available_zones" : [ "xxx" ],
    "type" : "evs",
    "unavailable_zones" : [ ]
  }, {
    "io_spec" : "dms.physical.storage.ultra.v2",
    "available_zones" : [ "xxx" ],
    "type" : "evs",
    "unavailable_zones" : [ ]
  } ],
  "support_features" : [ {
    "name" : "connector_obs",
    "properties" : {
      "max_task" : "10",
      "max_node" : "10",
      "min_task" : "1",
      "min_node" : "2"
    }
  } ],
  "properties" : {
    "max_partition_per_broker" : "1500",
    "max_broker" : "30",
    "max_storage_per_node" : "30000",
    "max_consumer_per_broker" : "4000",
    "min_broker" : "3",
    "product_alias" : "kafka.12u24g.cluster",
    "max_bandwidth_per_broker" : "100",
    "min_storage_per_node" : "100",
    "max_tps_per_broker" : "200000"
  },
  "available_zones" : [ "xxx" ],
  "unavailable_zones" : [ ]
}, {
  "type" : "cluster",
  "product_id" : "c6.16u32g.cluster",
  "ecs_flavor_id" : "c3.4xlarge.2",
  "arch_types" : [ "X86" ],
  "charging_mode" : [ "monthly", "hourly" ],
  "ios" : [ {
    "io_spec" : "dms.physical.storage.high.v2",
    "available_zones" : [ "xxx" ],
    "type" : "evs",
    "unavailable_zones" : [ ]
  }, {
    "io_spec" : "dms.physical.storage.ultra.v2",
    "available_zones" : [ "xxx" ],
    "type" : "evs",
    "unavailable_zones" : [ ]
  } ],
  "support_features" : [ {
    "name" : "connector_obs",
    "properties" : {
      "max_task" : "10",
      "max_node" : "10",
      "min_task" : "1",
      "min_node" : "2"
```



```
    }
   } ],
   "properties" : {
    "max_partition_per_broker" : "2000",
    "max_broker" : "30",
    "max_storage_per_node" : "30000",
    "max_consumer_per_broker" : "4000",
    "min_broker" : "3",
    "product_alias" : "kafka.16u32g.cluster",
    "max_bandwidth_per_broker" : "100",
    "min_storage_per_node" : "100",
    "max_tps_per_broker" : "250000"
   },
   "available_zones" : [ "xxx" ],
   "unavailable_zones" : [ ]
  } ]
}
```


Status Codes

Status Code	Description
200	Successfully queried the product information for instance specification modification.

Error Codes

See **Error Codes**.

5.4 Topic Management

5.4.1 Configuring Automatic Topic Creation

Function

This API is used to configure automatic topic creation.

URI

POST /v2/{project_id}/instances/{instance_id}/autotopic

Table 5-83 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain it, see **Obtaining a Project ID**.
instance_id	Yes	String	Instance ID.

Request Parameters

Table 5-84 Request body parameters

Parameter	Mandatory	Type	Description
enable_auto_topic	Yes	Boolean	Whether to enable automatic topic creation.

Response Parameters

Status code: 200

The function is enabled or disabled successfully.

None

Example Requests

Enabling automatic topic creation

```
POST https://{endpoint}/v2/{project_id}/instances/{instance_id}/autotopic

{
  "enable_auto_topic" : true
}
```

Example Responses

None

Status Codes

Status Code	Description
200	The function is enabled or disabled successfully.

Error Codes

See **Error Codes**.

5.4.2 Reassigning Replicas of a Topic for a Kafka Instance

Function

This API is used to reassign replicas of a topic for a Kafka instance.

URI

POST /v2/{project_id}/instances/{instance_id}/management/topics/{topic}/replicas-reassignment

Table 5-85 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain it, see **Obtaining a Project ID**.
instance_id	Yes	String	Instance ID.
topic	Yes	String	Topic name.

Request Parameters

Table 5-86 Request body parameters

Parameter	Mandatory	Type	Description
partitions	No	Array of **partitions** objects	Assignment of replicas of the partition after the change.

Table 5-87 partitions

Parameter	Mandatory	Type	Description
partition	No	Integer	Partition ID.
replicas	No	Array of integers	ID of the broker where the replica is expected to reside. The first integer in the array represents the leader replica broker ID. All partitions must have the same number of replicas. The number of replicas cannot be larger than the number of brokers.

Response Parameters

Status code: 204

The replicas are reassigned successfully.

None

Example Requests

Reassigning topic partitions, with replicas of partition 1 on brokers 1 and 2, and the leader replica on broker 1


```
POST https://{endpoint}/v2/{project_id}/instances/{instance_id}/management/topics/{topic}/replicas-reassignment

{
  "partitions" : [ {
    "partition" : 1,
    "replicas" : [ 1, 2 ]
  }, {
    "partition" : 0,
    "replicas" : [ 0, 1 ]
  } ]
}
```

Example Responses

None

Status Codes

Status Code	Description
204	The replicas are reassigned successfully.

Error Codes

See **Error Codes**.

5.4.3 Producing Messages to Kafka

Function

This API is used to send specific messages to a Kafka instance on the console.

URI

POST /v2/{project_id}/instances/{instance_id}/messages/action

Table 5-88 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain it, see **Obtaining a Project ID**.
instance_id	Yes	String	Instance ID.

Table 5-89 Query Parameters

Parameter	Mandatory	Type	Description
action_id	Yes	String	Action ID, which is **send** for production.

Request Parameters

Table 5-90 Request body parameters

Parameter	Mandatory	Type	Description
topic	Yes	String	Kafka topic.
body	Yes	String	Message content.
property_list	Yes	Array of **property_list** objects	Topic partition information

Table 5-91 property_list

Parameter	Mandatory	Type	Description
name	No	String	Feature name.
value	No	String	Feature value.

Response Parameters

Status code: 200

Table 5-92 Response body parameters

Parameter	Type	Description
topic	String	Kafka topic
body	String	Message content.
property_list	Array of objects	Topic partition information

Example Requests

Sending messages on the Kafka console

```
POST https://{endpoint}/v2/{project_id}/instances/{instance_id}/messages/action?action_id={action_id}
```



```
{
  "topic" : "XXXX",
  "body" : "hello world",
  "property_list" : [ {
    "name" : "KEY",
    "value" : "testKey"
  }, {
    "name" : "PARTITION",
    "value" : "0"
  } ]
}
```

Example Responses

Status code: 200

Message produced.

```
{
  "topic" : "XXXX",
  "body" : "XXXX",
  "property_list" : [ ]
}
```

Status Codes

Status Code	Description
200	Message produced.

Error Codes

See **Error Codes**.

5.4.4 Creating a Topic for a Kafka Instance

Function

This API is used to create a topic for a Kafka instance.

URI

POST /v2/{project_id}/instances/{instance_id}/topics

Table 5-93 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: Project ID. For details, see **Obtaining a Project ID**. **Constraints**: N/A **Range**: N/A **Default Value**: N/A
instance_id	Yes	String	**Definition**: Instance ID. You can call the API for querying all instances to obtain the instance ID. The instance ID is in the response body. **Constraints**: N/A **Range**: N/A **Default Value**: N/A

Request Parameters

Table 5-94 Request body parameters

Parameter	Mandatory	Type	Description
id	Yes	String	**Definition**: Topic name. **Constraints**: A topic name consists of 3 to 200 characters, starts with a letter, and contains only letters, hyphens (-), underscores (_), periods (.), and digits. **Range**: N/A **Default Value**: N/A
replication	No	Integer	**Definition**: Number of replicas, which is configured to ensure data reliability. **Constraints**: The number of replicas is related to the number of brokers. If there are three brokers, the maximum number of replicas is 3. **Range**: N/A **Default Value**: N/A

Parameter	Mandatory	Type	Description
sync_message_flush	No	Boolean	**Definition**: Whether to enable synchronous flushing. Synchronous flushing causes performance deterioration. **Constraints**: N/A **Range**: • **true**: Yes • **false**: No **Default Value**: **false**
partition	No	Integer	**Definition**: Number of topic partitions, which is used to set the number of the consumption concurrency. **Constraints**: N/A **Range**: 1–200 **Default Value**: N/A
sync_replication	No	Boolean	**Definition**: Whether to enable synchronous replication. **Constraints**: N/A **Range**: • **true**: yes The **acks** parameter on the producer client must be set to **–1**. Otherwise, this parameter does not take effect. • **false**: no **Default Value**: **false**

Parameter	Mandatory	Type	Description
retention_time	No	Integer	**Definition**: Message retention period. **Constraints**: N/A **Range**: 1–720 **Default Value**: 72
topic_other_configs	No	Array of **topic_other_configs** objects	**Definition**: Topic configuration
topic_desc	No	String	**Definition**: Topic description. **Constraints**: N/A **Range**: 0 to 200 characters **Default Value**: N/A

Table 5-95 topic_other_configs

Parameter	Mandatory	Type	Description
name	No	String	**Definition**: Configuration name. **Constraints**: N/A **Range**: N/A **Default Value**: N/A

Parameter	Mandatory	Type	Description
value	No	String	**Definition**: Configuration value. **Constraints**: N/A **Range**: N/A **Default Value**: N/A

Response Parameters

Status code: 200

Table 5-96 Response body parameters

Parameter	Type	Description
name	String	**Definition**: Topic name. **Range**: N/A

Example Requests

Creating a topic named test01

```
POST https://{endpoint}/v2/{project_id}/instances/{instance_id}/topics

{
  "id" : "test01",
  "partition" : 3,
  "replication" : 3,
  "retention_time" : 72,
  "sync_message_flush" : false,
  "sync_replication" : "false",
  "topic_other_configs" : [ {
    "name" : "message.timestamp.type",
    "value" : "LogAppendTime"
  }, {
    "name" : "max.message.bytes",
    "value" : 10485760
  } ],
  "topic_desc" : ""
}
```

Example Responses

Status code: 200

Successful. A topic name is returned.


```
{
  "name" : "test01"
}
```

Status Codes

Status Code	Description
200	Successful. A topic name is returned.

Error Codes

See **Error Codes**.

5.4.5 Listing Topics of a Kafka Instance

Function

This API is used to query details about topics of a Kafka instance.

URI

GET /v2/{project_id}/instances/{instance_id}/topics

Table 5-97 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Parameter description**: Project ID. For details, see **Obtaining a Project ID**. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

Parameter	Mandatory	Type	Description
instance_id	Yes	String	**Definition**: Instance ID. You can call the API for querying all instances to obtain the instance ID. The instance ID is in the response body. **Constraints**: N/A **Range**: N/A **Default Value**: N/A

Table 5-98 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	String	**Parameter description**: Offset, which is the position where the query starts. **Constraints**: N/A **Value range**: ≥ 0 **Default value**: N/A
limit	No	String	**Definition**: Maximum number of instances that can be returned in a query. **Constraints**: N/A **Range**: ≥ 0 **Default Value**: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 5-99 Response body parameters

Parameter	Type	Description
total	Integer	**Parameter description**: Total number of topics. **Value range**: N/A
size	Integer	**Parameter description**: Indicates the maximum number of records to be displayed on a page. **Value range**: N/A
remain_partitions	Integer	**Parameter description**: Number of remaining partitions. **Value range**: N/A
max_partitions	Integer	**Parameter description**: Total number of partitions. **Value range**: N/A
topic_max_partitions	Integer	**Parameter description**: Maximum number of partitions in a single topic. **Value range**: N/A
topics	Array of **TopicEntity** objects	**Parameter description**: Topic list.

Table 5-100 TopicEntity

Parameter	Type	Description
policiesOnly	Boolean	**Definition**: Whether a policy is default. **Range**: • **true**: Yes • **false**: No
name	String	**Parameter description**: Topic name. **Value range**: N/A
replication	Integer	**Parameter description**: Number of replicas, which is configured to ensure data reliability. **Value range**: N/A
partition	Integer	**Parameter description**: Number of topic partitions, which is used to set the number of concurrently consumed messages. **Value range**: N/A
retention_time	Integer	**Parameter description**: Retention period of a message. **Value range**: 0–720
sync_replication	Boolean	**Parameter description**: Whether to enable synchronous replication. This function is disabled by default. **Value range**: • **true**: Yes. The **acks** parameter on the producer client must be set to **-1**. Otherwise, this parameter does not take effect. • **false**: No.

Parameter	Type	Description
sync_message_flush	Boolean	**Parameter description**: Whether synchronous flushing is enabled. The default value is false. Synchronous flushing compromises performance. **Value range**: • **true**: Yes • **false**: No
external_configs	Object	**Parameter description**: Extended configuration.
topic_type	Integer	**Parameter description**: Topic type. **Value range**: • **0**: common topic • **1**: system (internal) topic
topic_other_configs	Array of **topic_other_configs** objects	**Parameter description**: Other topic configurations.
topic_desc	String	**Parameter description**: Topic description. **Value range**: N/A
created_at	Long	**Parameter description**: Topic creation time. **Value range**: N/A

Table 5-101 topic_other_configs

Parameter	Type	Description
name	String	**Parameter description**: Configuration name. **Value range**: N/A

Parameter	Type	Description
valid_values	String	**Parameter description**: Valid value. **Value range**: N/A
default_value	String	**Parameter description**: Default value. **Value range**: N/A
config_type	String	**Parameter description**: Configuration type. **Value range**: • **dynamic** • **static**
value	String	**Parameter description**: Configuration value. **Value range**: N/A
value_type	String	**Parameter description**: Configuration value type. **Value range**: N/A

Example Requests

Querying the topic list

```
GET https://{endpoint}/v2/{project_id}/instances/{instance_id}/topics?offset=0&limit=10
```

Example Responses

Status code: 200

The query is successful.

```
{
  "total" : 1,
  "size" : 0,
  "topics" : [ {
    "policiesOnly" : false,
    "name" : "Topic-test01",
    "replication" : 3,
    "partition" : 3,
    "retention_time" : 72,
    "sync_replication" : "false",
    "sync_message_flush" : "false",
```



```
  "topic_other_configs" : [ {
    "name" : "max.message.bytes",
    "valid_values" : "[0...10485760]",
    "default_value" : "10485760",
    "config_type" : "dynamic",
    "value" : "10485760",
    "value_type" : "int"
   }, {
    "name" : "message.timestamp.type",
    "valid_values" : "[CreateTime, LogAppendTime]",
    "default_value" : "LogAppendTime",
    "config_type" : "dynamic",
    "value" : "LogAppendTime",
    "value_type" : "string"
   } ],
   "external_configs" : { },
   "topic_type" : 0,
   "topic_desc" : "This is a test topic",
   "created_at" : 1688112779916
  } ],
  "remain_partitions" : 294,
  "max_partitions" : 300,
  "topic_max_partitions" : 200
}
```


Status Codes

Status Code	Description
200	The query is successful.

Error Codes

See **Error Codes**.

5.4.6 Modifying Topics of a Kafka Instance

Function

This API is used to modify topics of a Kafka instance.

URI

PUT /v2/{project_id}/instances/{instance_id}/topics

Table 5-102 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain it, see **Obtaining a Project ID**.
instance_id	Yes	String	Instance ID.

Request Parameters

Table 5-103 Request body parameters

Parameter	Mandatory	Type	Description
topics	No	Array of **topics** objects	List of modified topics.

Table 5-104 topics

Parameter	Mandatory	Type	Description
id	Yes	String	Topic name, which cannot be modified.
retention_time	No	Integer	Aging time in hour.
sync_replication	No	Boolean	Whether synchronous replication is enabled.
sync_message_flush	No	Boolean	Whether synchronous flushing is enabled.
new_partition_numbers	No	Integer	Number of the partitions.
new_partition_brokers	No	Array of integers	Specifying brokers for new partitions.
topic_other_configs	No	Array of **topic_other_configs** objects	Topic configuration
topic_desc	No	String	Topic description

Table 5-105 topic_other_configs

Parameter	Mandatory	Type	Description
name	No	String	Configuration name.
value	No	String	Configuration value.

Response Parameters

Status code: 204

The modification is successful.

None

Example Requests

Modifying parameters of topic-1284340884. Specifically, change the aging time to 72 hours, the number of partitions to 6, timestamp to LogAppendTime, max. batch size to 10485760, specify new partitions on broker-1 and broker-2, and disable synchronous replication and flushing.

```
PUT https://{endpoint}/v2/{project_id}/instances/{instance_id}/topics

{
  "topics" : [ {
    "id" : "test01",
    "retention_time" : 72,
    "sync_replication" : false,
    "sync_message_flush" : false,
    "new_partition_numbers" : 6,
    "new_partition_brokers" : [ 1, 2 ],
    "topic_other_configs" : [ {
      "name" : "message.timestamp.type",
      "value" : "LogAppendTime"
    }, {
      "name" : "max.message.bytes",
      "value" : 10485760
    } ],
    "topic_desc" : "This is a test topic"
  } ]
}
```

Example Responses

None

Status Codes

Status Code	Description
204	The modification is successful.

Error Codes

See **Error Codes**.

5.4.7 Batch Deleting Topics of a Kafka Instance

Function

This API is used to delete multiple topics of a Kafka instance in batches. If some topics are deleted successfully while some fail to be deleted, a success response is returned with information about topics that fail to be deleted.

URI

POST /v2/{project_id}/instances/{instance_id}/topics/delete

Table 5-106 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Parameter description**: Project ID. For details, see **Obtaining a Project ID**. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
instance_id	Yes	String	**Definition**: Instance ID. You can call the API for querying all instances to obtain the instance ID. The instance ID is in the response body. **Constraints**: N/A **Range**: N/A **Default Value**: N/A

Request Parameters

Table 5-107 Request body parameters

Parameter	Mandatory	Type	Description
topics	No	Array of strings	**Parameter description**: Topics to delete. **Constraints**: N/A

Response Parameters

Status code: 200

Table 5-108 Response body parameters

Parameter	Type	Description
topics	Array of **topics** objects	**Parameter description**: Topic list.

Table 5-109 topics

Parameter	Type	Description
id	String	**Parameter description**: Topic name. **Value range**: N/A
success	Boolean	**Parameter description**: Indicates whether the deletion is successful. **Value range**: • **true**: Yes • **false**: No

Example Requests

Batch deleting topics

```
POST https://{endpoint}/v2/{project_id}/instances/{instance_id}/topics/delete

{
  "topics" : [ "topic01" ]
}
```

Example Responses

Status code: 200

The deletion is successful.

```
{
  "topics" : [ {
    "id" : "topic01",
    "success" : true
  } ]
}
```


Status Codes

Status Code	Description
200	The deletion is successful.

Error Codes

See **Error Codes**.

5.4.8 Querying the Partition List of a Topic

Function

This API is used to query the partition list of a topic.

URI

GET /v2/{project_id}/kafka/instances/{instance_id}/topics/{topic}/partitions

Table 5-110 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain it, see **Obtaining a Project ID**.
instance_id	Yes	String	Instance ID.
topic	Yes	String	Topic.

Table 5-111 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Offset. The records after this offset will be queried.
limit	No	Integer	Maximum number of records that can be returned.

Request Parameters

None

Response Parameters

Status code: 200

Table 5-112 Response body parameters

Parameter	Type	Description
total	Integer	Total records.
partitions	Array of **partitions** objects	Partition array.

Table 5-113 partitions

Parameter	Type	Description
partition	Integer	Partition ID.
start_offset	Long	Start offset.
last_offset	Long	Last offset.
message_count	Long	Number of messages in a partition.
last_update_time	Long	Last update time.

Example Requests

Querying the partition list of a topic

```
GET https://{endpoint}/v2/{project_id}/kafka/instances/{instance_id}/topics/{topic}/partitions?
start=1&limit=10
```

Example Responses

Status code: 200

The partition list of the topic is queried successfully.

```
{
  "total" : 3,
  "partitions" : [ {
    "partition" : 0,
    "start_offset" : 0,
    "last_offset" : 1216303,
    "message_count" : 1216303,
    "last_update_time" : 1688011291458
  }, {
    "partition" : 1,
    "start_offset" : 0,
    "last_offset" : 985447,
    "message_count" : 985447,
    "last_update_time" : 1688011291469
  }, {
    "partition" : 2,
    "start_offset" : 0,
```

```
    "last_offset" : 923340,
    "message_count" : 923340,
    "last_update_time" : 1688011291526
  } ]
}
```


Status Codes

Status Code	Description
200	The partition list of the topic is queried successfully.

Error Codes

See **Error Codes**.

5.4.9 Querying the Current Producer List of a Topic

Function

This API is used to query the current producer list of a topic.

URI

GET /v2/{project_id}/kafka/instances/{instance_id}/topics/{topic}/producers

Table 5-114 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Parameter description**: Project ID. For details, see **Obtaining a Project ID**. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

Parameter	Mandatory	Type	Description
instance_id	Yes	String	**Definition**: Instance ID. You can call the API for querying all instances to obtain the instance ID. The instance ID is in the response body. **Constraints**: N/A **Range**: N/A **Default Value**: N/A
topic	Yes	String	**Parameter description**: Topic. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

Table 5-115 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	**Parameter description**: Offset. The records after this offset will be queried. **Constraints**: N/A **Value range**: ≥ 0 **Default value**: N/A

Parameter	Mandatory	Type	Description
limit	No	Integer	**Parameter description**: Maximum number of records that can be returned. **Constraints**: N/A **Value range**: 1–50 **Default value**: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 5-116 Response body parameters

Parameter	Type	Description
total	Integer	**Parameter description**: Total number of records. **Value range**: 0–10,000
producers	Array of **producers** objects	**Parameter description**: Producer list.

Table 5-117 producers

Parameter	Type	Description
producer_address	String	**Parameter description**: Producer address. **Value range**: N/A

Parameter	Type	Description
broker_address	String	**Parameter description**: Broker address. **Value range**: N/A
join_time	Long	**Parameter description**: Join time, which is a Unix timestamp. **Value range**: N/A

Example Requests

Querying the current producer list of a topic

```
GET https://{endpoint}/v2/{project_id}/kafka/instances/{instance_id}/topics/{topic}/producers?offset=0&limit=10
```

Example Responses

Status code: 200

The current producer list of the topic is queried successfully.

```
{
  "total" : 3,
  "producers" : [ {
    "producer_address" : "192.0.0.149:40443",
    "broker_address" : "192.0.0.146:9092",
    "join_time" : 1687204743328
  }, {
    "producer_address" : "192.0.0.149:13807",
    "broker_address" : "192.0.0.80:9092",
    "join_time" : 1687204745939
  }, {
    "producer_address" : "192.0.0.149:31876",
    "broker_address" : "192.0.0.71:9092",
    "join_time" : 1687204744934
  } ]
}
```

Status Codes

Status Code	Description
200	The current producer list of the topic is queried successfully.

Error Codes

See **Error Codes**.

5.4.10 Querying Topic Details

Function

This API is used to query topic details of a Kafka instance. (Up to 1s for each instance call)

URI

GET /v2/{project_id}/instances/{instance_id}/management/topics/{topic}

Table 5-118 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Parameter description**: Project ID. For details, see **Obtaining a Project ID**. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
instance_id	Yes	String	**Definition**: Instance ID. You can call the API for querying all instances to obtain the instance ID. The instance ID is in the response body. **Constraints**: N/A **Range**: N/A **Default Value**: N/A
topic	Yes	String	**Parameter description**: Topic name. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 5-119 Response body parameters

Parameter	Type	Description
topic	String	**Parameter description**: Topic name. **Value range**: N/A
partitions	Array of **partitions** objects	**Parameter description**: Partition list.
group_subscribed	Array of strings	**Parameter description**: List of consumer groups that subscribe to the topic.

Table 5-120 partitions

Parameter	Type	Description
partition	Integer	**Parameter description**: Partition ID. **Value range**: N/A
leader	Integer	**Parameter description**: ID of the broker where the leader replica resides. **Value range**: N/A
leo	Integer	**Parameter description**: LEO of the partition leader replica. **Value range**: N/A

Parameter	Type	Description
hw	Integer	**Parameter description**: High watermark (HW) of the partition. **Value range**: N/A
lso	Integer	**Parameter description**: Log start offset (LSO) of the partition leader replica. **Value range**: N/A
last_update_timestamp	Long	**Parameter description**: Time when the last message was written to the partition. The value is a Unix timestamp. Unit: millisecond **Value range**: N/A
replicas	Array of **replicas** objects	**Parameter description**: Replica list.

Table 5-121 replicas

Parameter	Type	Description
broker	Integer	**Parameter description**: ID of the broker where the replica resides. **Value range**: N/A
leader	Boolean	**Parameter description**: Whether the replica is the leader. **Value range**: • **true**: Yes • **false**: No
in_sync	Boolean	**Parameter description**: Whether the replica is in the ISR. **Value range**: • **true**: Yes • **false**: No

Parameter	Type	Description
size	Integer	**Parameter description**: Current log size of the replica. Unit: byte **Value range**: N/A
lag	Long	**Parameter description**: Number of messages that lag behind the high watermark in the replica. **Value range**: N/A

Example Requests

Querying details about a specified topic

```
GET https://{endpoint}/v2/{project_id}/instances/{instance_id}/management/topics/{topic}
```

Example Responses

Status code: 200

The query is successful.

```
{
  "topic" : "test",
  "partitions" : [ {
    "partition" : 0,
    "leader" : 2,
    "replicas" : [ {
      "broker" : 2,
      "leader" : true,
      "in_sync" : true,
      "size" : 123971146,
      "lag" : 0
    }, {
      "broker" : 1,
      "leader" : false,
      "in_sync" : true,
      "size" : 123971146,
      "lag" : 0
    }, {
      "broker" : 0,
      "leader" : false,
      "in_sync" : true,
      "size" : 123971146,
      "lag" : 0
    } ],
    "lso" : 0,
    "leo" : 13598,
    "hw" : 13598,
    "last_update_timestamp" : 1571477180985
  }, {
    "partition" : 2,
    "leader" : 1,
    "replicas" : [ {
      "broker" : 1,
```



```
    "leader" : true,
    "in_sync" : true,
    "size" : 123889531,
    "lag" : 0
   }, {
    "broker" : 0,
    "leader" : false,
    "in_sync" : true,
    "size" : 123889531,
    "lag" : 0
   }, {
    "broker" : 2,
    "leader" : false,
    "in_sync" : true,
    "size" : 123889531,
    "lag" : 0
   } ],
   "lso" : 0,
   "leo" : 13601,
   "hw" : 13601,
   "last_update_timestamp" : 1571477077146
  }, {
   "partition" : 1,
   "leader" : 0,
   "replicas" : [ {
    "broker" : 0,
    "leader" : true,
    "in_sync" : true,
    "size" : 127245604,
    "lag" : 0
   }, {
    "broker" : 2,
    "leader" : false,
    "in_sync" : true,
    "size" : 127245604,
    "lag" : 0
   }, {
    "broker" : 1,
    "leader" : false,
    "in_sync" : true,
    "size" : 127245604,
    "lag" : 0
   } ],
   "lso" : 0,
   "leo" : 13599,
   "hw" : 13599,
   "last_update_timestamp" : 1571477172959
  } ],
  "group_subscribed" : [ "test-consumer-group" ]
}
```


Status Codes

Status Code	Description
200	The query is successful.

Error Codes

See **Error Codes**.

5.4.11 Deleting a Topic Quota

Function

This API is used to submit a topic-level quota deletion task to a Kafka instance. If the task is successfully submitted, a job ID of the quota task is returned.

URI

DELETE /v2/kafka/{project_id}/instances/{instance_id}/kafka-topic-quota

Table 5-122 Path Parameters

Parameter	Mandatory	Type	Description
instance_id	Yes	String	**Definition**: Instance ID. You can call the API for querying all instances to obtain the instance ID. The instance ID is in the response body. **Constraints**: N/A **Range**: N/A **Default Value**: N/A
project_id	Yes	String	**Parameter description**: Project ID. For details, see **Obtaining a Project ID**. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

Request Parameters

Table 5-123 Request body parameters

Parameter	Mandatory	Type	Description
topic	No	String	Topic name.

Parameter	Mandatory	Type	Description
producer-byte-rate	No	Integer	Producer rate.
consumer-byte-rate	No	Integer	Consumer rate.

Response Parameters

Status code: 200

Table 5-124 Response body parameters

Parameter	Type	Description
job_id	String	ID of a quota configuration task.

Example Requests

Deleting a topic quota

```
DELETE https://{endpoint}/v2/kafka/{project_id}/instances/{instance_id}/kafka-topic-quota

{
  "topic" : "topic-001",
  "producer-byte-rate" : 1024,
  "consumer-byte-rate" : 2048
}
```

Example Responses

Status code: 200

Topic quota deleted.

```
{
  "job_id" : "ff8080828bdc0f64018bdcadfd8f00d7"
}
```

Status Codes

Status Code	Description
200	Topic quota deleted.

Error Codes

See **Error Codes**.

5.4.12 Creating a Topic Quota

Function

This API is used to submit a topic-level quota creation task to a Kafka instance. If the task is successfully submitted, a job ID of the quota task is returned.

URI

POST /v2/kafka/{project_id}/instances/{instance_id}/kafka-topic-quota

Table 5-125 Path Parameters

Parameter	Mandatory	Type	Description
instance_id	Yes	String	**Definition**: Instance ID. You can call the API for querying all instances to obtain the instance ID. The instance ID is in the response body. **Constraints**: N/A **Range**: N/A **Default Value**: N/A
project_id	Yes	String	**Parameter description**: Project ID. For details, see **Obtaining a Project ID**. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

Request Parameters

Table 5-126 Request body parameters

Parameter	Mandatory	Type	Description
topic	No	String	Topic name.

Parameter	Mandatory	Type	Description
producer-byte-rate	No	Integer	Producer rate.
consumer-byte-rate	No	Integer	Consumer rate.

Response Parameters

Status code: 200

Table 5-127 Response body parameters

Parameter	Type	Description
job_id	String	ID of a quota configuration task.

Example Requests

Deleting a topic quota

```
POST https://{endpoint}/v2/kafka/{project_id}/instances/{instance_id}/kafka-topic-quota

{
  "topic" : "topic-001",
  "producer-byte-rate" : 1024,
  "consumer-byte-rate" : 2048
}
```

Example Responses

Status code: 200

Topic quota deleted.

```
{
  "job_id" : "ff8080828bdc0f64018bdcadfd8f00d7"
}
```

Status Codes

Status Code	Description
200	Topic quota deleted.

Error Codes

See **Error Codes**.

5.4.13 Modifying a Topic Quota

Function

This API is used to submit a topic-level quota modification task to a Kafka instance. If the task is successfully submitted, a job ID of the quota task is returned.

URI

PUT /v2/kafka/{project_id}/instances/{instance_id}/kafka-topic-quota

Table 5-128 Path Parameters

Parameter	Mandatory	Type	Description
instance_id	Yes	String	**Definition**: Instance ID. You can call the API for querying all instances to obtain the instance ID. The instance ID is in the response body. **Constraints**: N/A **Range**: N/A **Default Value**: N/A
project_id	Yes	String	**Parameter description**: Project ID. For details, see **Obtaining a Project ID**. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

Request Parameters

Table 5-129 Request body parameters

Parameter	Mandatory	Type	Description
topic	No	String	Topic name.

Parameter	Mandatory	Type	Description
producer-byte-rate	No	Integer	Producer rate.
consumer-byte-rate	No	Integer	Consumer rate.

Response Parameters

Status code: 200

Table 5-130 Response body parameters

Parameter	Type	Description
job_id	String	ID of a quota configuration task.

Example Requests

Modifying a topic quota

```
PUT https://{endpoint}/v2/kafka/{project_id}/instances/{instance_id}/kafka-topic-quota

{
  "topic" : "topic-001",
  "producer-byte-rate" : 1024,
  "consumer-byte-rate" : 2048
}
```

Example Responses

Status code: 200

Topic quota modified.

```
{
  "job_id" : "ff8080828bdc0f64018bdcadfd8f00d7"
}
```

Status Codes

Status Code	Description
200	Topic quota modified.

Error Codes

See **Error Codes**.

5.4.14 Querying a Topic Quota

Function

This API is used to query a topic-level quota task.

URI

GET /v2/kafka/{project_id}/instances/{instance_id}/kafka-topic-quota

Table 5-131 Path Parameters

Parameter	Mandatory	Type	Description
instance_id	Yes	String	**Definition**: Instance ID. You can call the API for querying all instances to obtain the instance ID. The instance ID is in the response body. **Constraints**: N/A **Range**: N/A **Default Value**: N/A
project_id	Yes	String	**Parameter description**: Project ID. For details, see **Obtaining a Project ID**. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

Table 5-132 Query Parameters

Parameter	Mandatory	Type	Description
type	No	String	**Parameter description**: Query type. **Constraints**: A query type must start with a letter and can only contain letters, hyphens (-), underscores (_), and digits. **Value range**: The default value is topic. **Default value**: topic
limit	No	String	**Parameter description**: Number of quotas displayed on each page. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
offset	No	String	**Parameter description**: Number of pages. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

Parameter	Mandatory	Type	Description
keyword	No	String	**Parameter description**: Query keyword. **Constraints**: A query keyword must start with a letter and can only contain letters, hyphens (-), underscores (_), and digits. **Value range**: N/A **Default value**: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 5-133 Response body parameters

Parameter	Type	Description
quotas	Array of **KafkaTopicQuota** objects	Topic quota configuration.
count	Integer	Number of topic quotas.

Table 5-134 KafkaTopicQuota

Parameter	Type	Description
topic	String	Topic name.
producer-byte-rate	Integer	Producer rate.
consumer-byte-rate	Integer	Consumer rate.

Example Requests

Querying a topic quota


```
GET https://{endpoint}/v2/{engine}/{project_d}/instances/{instance_id}/kafka-user-client-quota?
type=topic&offset=0&limit=10&keyword=topic-02
```

Example Responses

Status code: 200

Topic quota queried.

```
{
  "quotas" : [ {
    "topic" : "topic-001",
    "producer-byte-rate" : 1024,
    "consumer-byte-rate" : 2048
  } ],
  "count" : 1
}
```

Status Codes

Status Code	Description
200	Topic quota queried.

Error Codes

See **Error Codes**.

5.4.15 Initiating Partition Reassignment for a Kafka Instance

Function

This API is used to submit a partition reassignment task for a Kafka instance. If the task is successfully submitted, its job ID is returned.

URI

POST /v2/{project_id}/kafka/instances/{instance_id}/reassign

Table 5-135 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain it, see **Obtaining a Project ID**.
instance_id	Yes	String	Instance ID.

Request Parameters

Table 5-136 Request body parameters

Parameter	Mandatory	Type	Description
reassignments	Yes	Array of **PartitionReassignEntity** objects	Partition reassignment plan.
throttle	No	Integer	Partition reassignment threshold.
is_schedule	No	Boolean	Whether the task is scheduled. If no, **is_schedule** and **execute_at** can be left blank. If yes, **is_schedule** is **true** and **execute_at** must be specified.
execute_at	No	Long	Schedule time. The value is a UNIX timestamp, in ms.
time_estimate	No	Boolean	Set **true** to perform time estimation tasks and **false** to perform partition reassignment tasks.

Table 5-137 PartitionReassignEntity

Parameter	Mandatory	Type	Description
topic	Yes	String	Topic name
brokers	No	Array of integers	List of brokers to which partitions are reassigned. This parameter is mandatory in automatic assignment.
replication_factor	No	Integer	Replication factor, which can be specified in automatic assignment.
assignment	No	Array of **TopicAssignment** objects	Manually specified assignment plan. The **brokers** parameter and this parameter cannot be empty at the same time.

Table 5-138 TopicAssignment

Parameter	Mandatory	Type	Description
partition	No	Integer	Partition number in manual assignment.
partition_brokers	No	Array of integers	List of brokers to be assigned to a partition in manual assignment.

Response Parameters

Status code: 200

Table 5-139 Response body parameters

Parameter	Type	Description
job_id	String	Task ID. Only **job_id** is returned for a partition reassignment task.
reassignment_time	Integer	Estimated time, in seconds. Only **reassignment_time** is returned for a time estimation task.

Example Requests

```
POST https://{endpoint}/v2/kafka/{project_id}/instances/{instance_id}/reassign

{
  "reassignments" : [ {
    "topic" : "topic-1513476102",
    "brokers" : [ 0, 1, 2 ],
    "replication_factor" : 3,
    "assignment" : [ {
      "partition" : 0,
      "partition_brokers" : [ 0, 1, 2 ]
    }, {
      "partition" : 1,
      "partition_brokers" : [ 1, 2, 0 ]
    }, {
      "partition" : 2,
      "partition_brokers" : [ 2, 0, 1 ]
    } ]
  }, {
    "topic" : "topic-1513558717",
    "brokers" : [ 0, 1, 4 ],
    "replication_factor" : 3,
    "assignment" : [ {
      "partition" : 0,
      "partition_brokers" : [ 0, 1, 2 ]
    }, {
      "partition" : 1,
      "partition_brokers" : [ 1, 2, 0 ]
    }, {
      "partition" : 2,
      "partition_brokers" : [ 2, 0, 1 ]
    } ]
```



```
  } ],
  "throttle" : 10000000,
  "time_estimate" : false
}
```

Example Responses

Status code: 200

Successful (The duration is returned for an estimation task.).

```
{
  "job_id" : "8a2c259182ab0e9d0182ab1882560009",
  "reassignment_time" : 10
}
```

Status Codes

Status Code	Description
200	Successful (The duration is returned for an estimation task.).

Error Codes

See **Error Codes**.

5.5 Managing Consumer Groups

5.5.1 Querying Consumer Group Details

Function

This API is used to query consumer group details.

URI

GET /v2/{project_id}/instances/{instance_id}/management/groups/{group}

Table 5-140 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: Project ID. For details, see **Obtaining a Project ID**. **Constraints**: N/A **Range**: N/A **Default Value**: N/A
instance_id	Yes	String	**Definition**: Instance ID. You can call the API for querying all instances to obtain the instance ID. The instance ID is in the response body. **Constraints**: N/A **Range**: N/A **Default Value**: N/A
group	Yes	String	**Definition**: Consumer group name. **Constraints**: N/A **Range**: N/A **Default Value**: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 5-141 Response body parameters

Parameter	Type	Description
group	**group** object	**Definition**: Consumer group information.

Table 5-142 group

Parameter	Type	Description
group_id	String	**Definition**: Consumer group name. **Range**: N/A
state	String	**Definition**: Consumer group status. **Range**: • **Dead**: The consumer group has no members and no metadata. • **Empty**: The consumer group has metadata but has no members. • **PreparingRebalance**: The consumer group is to be rebalanced. • **CompletingRebalance**: All members have joined the group. • **Stable**: Members in the consumer group can consume messages normally.
coordinator_id	Integer	**Definition**: Coordinator ID. **Range**: N/A
members	Array of **members** objects	**Definition**: Consumer list.
group_message_offsets	Array of **group_message_offsets** objects	**Definition**: Consumer offset.

Parameter	Type	Description
assignment_strategy	String	**Definition**: Partition assignment policy. **Range**: N/A

Table 5-143 members

Parameter	Type	Description
host	String	**Definition**: Consumer address of a consumer group. **Range**: N/A
assignment	Array of **assignment** objects	**Definition**: Details about the partition assigned to the consumer.
member_id	String	**Definition**: Consumer ID of a consumer group. **Range**: N/A
client_id	String	**Definition**: Client ID. **Range**: N/A

Table 5-144 assignment

Parameter	Type	Description
topic	String	**Definition**: Topic name. **Range**: N/A
partitions	Array of integers	**Definition**: Partition list.

Table 5-145 group_message_offsets

Parameter	Type	Description
partition	Integer	**Definition**: Partition ID. **Range**: N/A
lag	Long	**Definition**: Number of remaining messages that can be consumed, that is, the number of accumulated messages. **Range**: N/A
topic	String	**Definition**: Topic name. **Range**: N/A
message_current_offset	Long	**Definition**: Current consumer offset. **Range**: N/A
message_log_end_offset	Long	**Definition**: Log end offset (LEO). **Range**: N/A

Example Requests

```
GET https://{endpoint}/v2/{project_id}/instances/{instance_id}/management/groups/{group}
```

Example Responses

Status code: 200

The consumer group details are queried successfully.

```
{
  "group" : {
    "members" : [ {
      "host" : "/172.xx.xx.102",
      "assignment" : [ {
        "topic" : "test",
        "partitions" : [ 0, 1, 2 ]
      } ],
      "member_id" : "consumer-1-6b8ee551-d499-47d4-9beb-ba1527496785",
      "client_id" : "consumer-1"
    } ],
```



```
  "state" : "STABLE",
  "group_id" : "test-consumer-group",
  "coordinator_id" : 2,
  "group_message_offsets" : [ {
    "partition" : 0,
    "lag" : 31396,
    "topic" : "test",
    "message_current_offset" : 935,
    "message_log_end_offset" : 32331
  }, {
    "partition" : 0,
    "lag" : 0,
    "topic" : "aaaa",
    "message_current_offset" : 0,
    "message_log_end_offset" : 0
  }, {
    "partition" : 1,
    "lag" : 31279,
    "topic" : "test",
    "message_current_offset" : 1058,
    "message_log_end_offset" : 32337
  }, {
    "partition" : 1,
    "lag" : 0,
    "topic" : "aaaa",
    "message_current_offset" : 0,
    "message_log_end_offset" : 0
  }, {
    "partition" : 2,
    "lag" : 31603,
    "topic" : "test",
    "message_current_offset" : 739,
    "message_log_end_offset" : 32342
  } ],
  "assignment_strategy" : "range"
 }
}
```


Status Codes

Status Code	Description
200	The consumer group details are queried successfully.

Error Codes

See **Error Codes**.

5.5.2 Querying All Consumer Groups

Function

This API is used to query all consumer groups.

URI

GET /v2/{project_id}/instances/{instance_id}/groups

Table 5-146 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: Project ID. For details, see **Obtaining a Project ID**. **Constraints**: N/A **Range**: N/A **Default Value**: N/A
instance_id	Yes	String	**Definition**: Instance ID. You can call the API for querying all instances to obtain the instance ID. The instance ID is in the response body. **Constraints**: N/A **Range**: N/A **Default Value**: N/A

Table 5-147 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	String	**Definition**: Offset. **Constraints**: N/A **Range**: ≥ 0 **Default Value**: N/A

Parameter	Mandatory	Type	Description
limit	No	String	**Definition**: Maximum number of consumer group IDs returned in a query. **Constraints**: N/A **Range**: 1–50 **Default Value**: 10.
group	No	String	**Definition**: Filtering consumer group names that contain specific keywords. **Constraints**: N/A **Range**: N/A **Default Value**: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 5-148 Response body parameters

Parameter	Type	Description
groups	Array of **GroupInfoSimple** objects	**Definition**: Information about all consumer groups.
total	Integer	**Definition**: Total number of consumer groups. **Range**: N/A

Table 5-149 GroupInfoSimple

Parameter	Type	Description
createdAt	Long	**Definition**: Creation time. **Range**: N/A
group_id	String	**Definition**: Consumer group ID. **Range**: N/A
state	String	**Definition**: Consumer group status. **Range**: • **Dead**: The consumer group has no members and no metadata. • **Empty**: The consumer group has metadata but has no members. • **PreparingRebalance**: The consumer group is to be rebalanced. • **CompletingRebalance**: All members have joined the group. • **Stable**: Members in the consumer group can consume messages normally.
coordinator_id	Integer	**Definition**: Coordinator ID. **Range**: N/A
group_desc	String	**Definition**: Description of the consumer group. **Range**: N/A
lag	Long	**Definition**: Number of accumulated messages. **Range**: N/A

Example Requests

Querying the consumer group list

```
GET https://{endpoint}/v2/{project_id}/instances/{instance_id}/groups?
offset={offset}&limit={limit}&group={group}
```

Example Responses

Status code: 200

All consumer groups are queried successfully.


```
{
  "groups" : [ {
    "createdAt" : 1691401194847,
    "group_id" : "consumer-1",
    "state" : "EMPTY",
    "coordinator_id" : 1,
    "lag" : 0,
    "group_desc" : null
  }, {
    "createdAt" : 1691401194960,
    "group_id" : "consumer-2",
    "state" : "STABLE",
    "coordinator_id" : 2,
    "lag" : 0,
    "group_desc" : null
  }, {
    "createdAt" : 1691401207309,
    "group_id" : "consumer-3",
    "state" : "STABLE",
    "coordinator_id" : 3,
    "lag" : 0,
    "group_desc" : null
  } ],
  "total" : 3
}
```


Status Codes

Status Code	Description
200	All consumer groups are queried successfully.

Error Codes

See **Error Codes**.

5.5.3 Deleting Consumer Groups of a Kafka Instance in Batches

Function

This API is used to delete multiple consumer groups of a Kafka instance in batches.

URI

POST /v2/{project_id}/instances/{instance_id}/groups/batch-delete

Table 5-150 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain it, see **Obtaining a Project ID**.
instance_id	Yes	String	Instance ID.

Request Parameters

Table 5-151 Request body parameters

Parameter	Mandatory	Type	Description
group_ids	Yes	Array of strings	IDs of all consumer groups to be deleted.

Response Parameters

Status code: 200

Table 5-152 Response body parameters

Parameter	Type	Description
failed_groups	Array of **failed_groups** objects	List of consumer groups that failed to be deleted.
total	Integer	Number of records that fail to be deleted.

Table 5-153 failed_groups

Parameter	Type	Description
group_id	String	ID of consumer groups that failed to be deleted.
error_message	String	Cause of the deletion failure.

Example Requests

Batch deleting consumer groups

```
POST https://{endpoint}/v2/{project_id}/instances/{instance_id}/groups/batch-delete

{
  "group_ids" : [ "get-sync-group0", "get-sync-group1" ]
}
```

Example Responses

Status code: 200

The consumer groups are deleted successfully.

```
{
  "failed_groups" : [ {
    "group_id" : "test-1",
    "error_message" : "UNKNOW"
  }, {
    "group_id" : "test-2",
    "error_message" : "UNKNOW"
  } ],
  "total" : 2
}
```

Status Codes

Status Code	Description
200	The consumer groups are deleted successfully.

Error Codes

See **Error Codes**.

5.5.4 Creating a Consumer Group

Function

This API is used to create a consumer group.

URI

POST /v2/{project_id}/kafka/instances/{instance_id}/group

Table 5-154 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain it, see **Obtaining a Project ID**.

Parameter	Mandatory	Type	Description
instance_id	Yes	String	Instance ID.

Request Parameters

Table 5-155 Request body parameters

Parameter	Mandatory	Type	Description
group_name	Yes	String	Consumer group name.
group_desc	No	String	Consumer group description.

Response Parameters

Status code: 200

Table 5-156 Response body parameters

Parameter	Type	Description
-	String	Specified IPv4 private IP addresses. The number of specified IP addresses must be less than or equal to the number of new brokers. If the number of specified IP addresses is less than the number of brokers, the unspecified brokers are randomly assigned private IP addresses.

Status code: 400

Table 5-157 Response body parameters

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

Example Requests

Creating a consumer group named test

```
POST https://{endpoint}/v2/{project_id}/kafka/instances/{instance_id}/group
```



```
{
  "group_name" : "test"
}
```

Example Responses

Status code: 200

Creation succeeded.

```
success
```

Status Codes

Status Code	Description
200	Creation succeeded.
400	Creation failed.

Error Codes

See **Error Codes**.

5.5.5 Resetting Consumer Group Offset to the Specified Position

Function

Kafka instances do not support resetting the consumer offset online. Before resetting, stop the client for which the offset is to be reset. After a client is stopped, the server considers the client offline only after the time period specified in **ConsumerConfig.SESSION_TIMEOUT_MS_CONFIG** (1000 ms by default).

URI

PUT /v2/kafka/{project_id}/instances/{instance_id}/groups/{group}/reset-message-offset

Table 5-158 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
instance_id	Yes	String	Instance ID.
group	Yes	String	Consumer group name.

Request Parameters

Table 5-159 Request body parameters

Parameter	Mandatory	Type	Description
topic	No	String	Topic name.
partition	Yes	Integer	Partition number. The default value is **-1**, indicating that all partitions are reset.
message_offset	No	Long	Resetting consumer group offset to the specified position. • If this position is earlier than the current earliest offset, the offset will be reset to the earliest offset. • If this offset is later than the current largest offset, the offset will be reset to the latest offset. **Either message_offset or timestamp must be specified.**
timestamp	No	Long	Specified time that the offset is to be reset to. The value is a Unix timestamp, in millisecond. • If this time is earlier than the current earliest timestamp, the offset will be reset to the earliest timestamp. • If this time is later than the current largest timestamp, the offset will be reset to the latest timestamp. **Either message_offset or timestamp must be specified.**

Response Parameters

Status code: 204

Successful

None

Example Requests

- Resetting consumer group offset to the specified position

```
POST https://{endpoint}/v2/kafka/{project_id}/instances/{instance_id}/groups/{group}/reset-message-offset

{
  "topic" : "test",
  "partition" : 0,
  "message_offset" : 10
}
```

- Resetting consumer group offset to the specified time

```
POST https://{endpoint}/v2/kafka/{project_id}/instances/{instance_id}/groups/{group}/reset-message-offset

{
  "topic" : "test",
  "partition" : 0,
  "timestamp" : 1571812144000
}
```

Example Responses

None

Status Codes

Status Code	Description
204	Successful

Error Codes

See **Error Codes**.

5.5.6 Querying the Offset of a Consumer Group

Function

This API is used to query the offset of a consumer group.

URI

GET /v2/{engine}/{project_id}/instances/{instance_id}/groups/{group}/message-offset

Table 5-160 Path Parameters

Parameter	Mandatory	Type	Description
engine	Yes	String	Message engine.

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see **Obtaining a Project ID**.
instance_id	Yes	String	Instance ID.
group	Yes	String	Consumer group name.

Table 5-161 Query Parameters

Parameter	Mandatory	Type	Description
topic	No	String	Topic name.
partition	No	String	Partition name.
offset	No	String	Offset.
limit	No	String	Maximum value.

Request Parameters

None

Response Parameters

Status code: 200

Table 5-162 Response body parameters

Parameter	Type	Description
group_message_offsets	Array of **GroupMessageOffsetsDetailEntity** objects	Consumer group offset details.
total	Integer	Total.

Table 5-163 GroupMessageOffsetsDetailEntity

Parameter	Type	Description
partition	String	Partition.
message_current_offset	String	Current offset.

Parameter	Type	Description
message_log_start_offset	Integer	Start offset.
message_log_end_offset	Integer	End offset.
consumer_id	String	Consumer ID.
host	String	Host name.
client_id	String	Client ID.

Example Requests

Querying the offset of a consumer group

```
GET https://{endpoint}/v2/{engine}/{project_id}/instances/{instance_id}/groups/{group}/message-offset
```

Example Responses

Status code: 200

Successful

```
{
  "group_message_offsets" : [ ],
  "total" : 0
}
```

Status Codes

Status Code	Description
200	Successful

Error Codes

See **Error Codes**.

5.5.7 Querying a Specified Consumer Group

Function

This API is used to query a specified consumer group.

URI

GET /v2/{engine}/{project_id}/instances/{instance_id}/groups/{group}

Table 5-164 Path Parameters

Parameter	Mandatory	Type	Description
engine	Yes	String	Engine.
project_id	Yes	String	Project ID. For details, see **Obtaining a Project ID**.
instance_id	Yes	String	Instance ID.
group	Yes	String	Filter query by consumer group name.

Request Parameters

None

Response Parameters

Status code: 200

Table 5-165 Response body parameters

Parameter	Type	Description
group	**group** object	Consumer group information.

Table 5-166 group

Parameter	Type	Description
group_id	String	Consumer group name.
state	String	Consumer group status. The value can be: • **Dead**: The consumer group has no members and no metadata. • **Empty**: The consumer group has metadata but has no members. • **PreparingRebalance**: The consumer group is to be rebalanced. • **CompletingRebalance**: All members have jointed the group. • **Stable**: Members in the consumer group can consume messages normally.
coordinator_id	Integer	Coordinator ID.

Parameter	Type	Description
members	Array of **members** objects	Consumer list.
group_message_offsets	Array of **group_message_offsets** objects	Consumer offset.
assignment_strategy	String	Partition assignment policy.

Table 5-167 members

Parameter	Type	Description
host	String	Consumer address.
member_id	String	Consumer ID.
client_id	String	Client ID.

Table 5-168 group_message_offsets

Parameter	Type	Description
partition	Integer	Partition number.
lag	Long	Number of remaining messages that can be retrieved, that is, the number of accumulated messages.
topic	String	Topic name.
message_current_offset	Long	Consumer offset.
message_log_end_offset	Long	Log end offset (LEO).

Example Requests

```
GET https://{endpoint}/v2/{engine}/{project_id}/instances/{instance_id}/groups/{group}
```

Example Responses

Status code: 200

Successful

```
{
  "group" : {
```



```
  "members" : [ {
    "host" : "/172.xx.xx.102",
    "member_id" : "consumer-1-6b8ee551-d499-47d4-9beb-ba1527496785",
    "client_id" : "consumer-1"
  } ],
  "state" : "STABLE",
  "group_id" : "test-consumer-group",
  "coordinator_id" : 2,
  "group_message_offsets" : [ {
    "partition" : 0,
    "lag" : 31396,
    "topic" : "test",
    "message_current_offset" : 935,
    "message_log_end_offset" : 32331
  }, {
    "partition" : 0,
    "lag" : 0,
    "topic" : "aaaa",
    "message_current_offset" : 0,
    "message_log_end_offset" : 0
  }, {
    "partition" : 1,
    "lag" : 31279,
    "topic" : "test",
    "message_current_offset" : 1058,
    "message_log_end_offset" : 32337
  }, {
    "partition" : 1,
    "lag" : 0,
    "topic" : "aaaa",
    "message_current_offset" : 0,
    "message_log_end_offset" : 0
  }, {
    "partition" : 2,
    "lag" : 31603,
    "topic" : "test",
    "message_current_offset" : 739,
    "message_log_end_offset" : 32342
  } ],
  "assignment_strategy" : "range"
 }
}
```


Status Codes

Status Code	Description
200	Successful

Error Codes

See **Error Codes**.

5.5.8 Deleting a Specified Consumer Group

Function

This API is used to delete a specified consumer group.

URI

DELETE /v2/{engine}/{project_id}/instances/{instance_id}/groups/{group}

Table 5-169 Path Parameters

Parameter	Mandatory	Type	Description
engine	Yes	String	Engine.
project_id	Yes	String	Project ID. For details, see **Obtaining a Project ID**.
instance_id	Yes	String	Instance ID.
group	Yes	String	Consumer group ID.

Request Parameters

None

Response Parameters

Status code: 200

Successful

None

Example Requests

DELETE https://{endpoint}/v2/{engine}/{project_id}/instances/{instance_id}/groups/{group}

Example Responses

None

Status Codes

Status Code	Description
200	Successful

Error Codes

See **Error Codes**.

5.5.9 Querying Topics of a Specified Consumer Group

Function

This API is used to query topics of a specified consumer group.

URI

GET /v2/{engine}/{project_id}/instances/{instance_id}/groups/{group}/topics

Table 5-170 Path Parameters

Parameter	Mandatory	Type	Description
engine	Yes	String	Engine.
project_id	Yes	String	Project ID. For details, see **Obtaining a Project ID**.
instance_id	Yes	String	Instance ID.
group	Yes	String	Consumer group ID.

Table 5-171 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Offset, which is the position where the query starts. The value must be greater than or equal to 0.
limit	No	Integer	Maximum number of topics returned in the current query. The default value is **10**. The range is 1 to 50.
sort_key	No	String	Sorting rule: • **topic**: topic name • **partition**: number of partitions • **messages** (default): number of messages
sort_dir	No	String	Sort in: • **asc**: ascending order • **desc** (default): descending order
topic	No	String	Topic name.

Request Parameters

None

Response Parameters

Status code: 200

Table 5-172 Response body parameters

Parameter	Type	Description
topics	Array of **GroupTopicEntity** objects	Consumer group topic
total	Integer	Total.

Table 5-173 GroupTopicEntity

Parameter	Type	Description
topic	String	Topic name
partitions	Integer	Partition.
lag	Integer	Number of stacked messages.

Example Requests

```
GET https://{endpoint}/v2/{engine}/{project_id}/instances/{instance_id}/groups/{group}/topics
```

Example Responses

Status code: 200

Successful

```
{
  "topics" : [ {
    "topic" : "topic-1",
    "partitions" : 1,
    "lag" : 0
  }, {
    "topic" : "topic-2",
    "partitions" : 2,
    "lag" : 10
  } ],
  "total" : 2
}
```

Status Codes

Status Code	Description
200	Successful

Error Codes

See **Error Codes**.

5.5.10 Deleting Consumer Offset in a Specified Topic

Function

This API is used to delete consumer offset in a specified topic.

URI

POST /v2/kafka/{project_id}/instances/{instance_id}/groups/{group}/delete-offset

Table 5-174 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see **Obtaining a Project ID**.
instance_id	Yes	String	Instance ID.
group	Yes	String	Consumer group ID.

Request Parameters

Table 5-175 Request body parameters

Parameter	Mandatory	Type	Description
topics	No	Array of strings	Topic list

Response Parameters

Status code: 200

Table 5-176 Response body parameters

Parameter	Type	Description
topics	Array of **DeleteConsumerGroupOffsetsResponseEntity** objects	Result list.

Table 5-177 DeleteConsumerGroupOffsetsResponseEntity

Parameter	Type	Description
name	String	Topic name
success	Boolean	Whether the consumer offset is deleted.
error_code	String	Error code.

Example Requests

```
/v2/kafka/{project_id}/instances/{instance_id}/groups/{group}/delete-offset

{
  "topics" : [ "topic-1", "topic-2" ]
}
```

Example Responses

Status code: 200

Deleted.

```
{
  "topics" : [ {
    "name" : "topic-1",
    "success" : true
  }, {
    "name" : "topic-2",
    "success" : true
  } ]
}
```

Status Codes

Status Code	Description
200	Deleted.

Error Codes

See **Error Codes**.

5.5.11 Querying Consumers in a Specified Consumer Group

Function

This API is used to query consumers in a specified consumer group.

URI

GET /v2/{engine}/{project_id}/instances/{instance_id}/groups/{group}/members

Table 5-178 Path Parameters

Parameter	Mandatory	Type	Description
engine	Yes	String	Engine.
project_id	Yes	String	Project ID. For details, see **Obtaining a Project ID**.
instance_id	Yes	String	Instance ID.
group	Yes	String	Consumer group ID.

Table 5-179 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Offset, which is the position where the query starts. The value must be greater than or equal to 0.
limit	No	Integer	Maximum number of consumers returned in the current query. The default value is **10**. The value ranges from 1 to 50.
host	No	String	Consumer address.
member_id	No	String	Consumer ID.

Request Parameters

None

Response Parameters

Status code: 200

Table 5-180 Response body parameters

Parameter	Type	Description
members	Array of **GroupMemberEntity** objects	Consumer details.
total	Integer	Total.

Table 5-181 GroupMemberEntity

Parameter	Type	Description
member_id	String	Consumer ID.
client_id	String	Client ID.

Example Requests

```
GET https://{endpoint}/v2/{engine}/{project_id}/instances/{instance_id}/groups/{group}/members
```

Example Responses

Status code: 200

Successful

```
{
  "members" : [ {
    "member_id" : "consumer-1-6b8ee551-d499-47d4-9beb-ba1527496785",
    "client_id" : "consumer-1"
  }, {
    "member_id" : "consumer-2-6b8ee551-d499-47d4-9beb-ba1527491125",
    "client_id" : "consumer-2"
  } ],
  "total" : 2
}
```

Status Codes

Status Code	Description
200	Successful

Error Codes

See **Error Codes**.

5.6 User Management

5.6.1 Querying the User List

Function

This API is used to query the user list.

User management is supported only when SASL is enabled for the Kafka instance.

URI

GET /v2/{project_id}/instances/{instance_id}/users

Table 5-182 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain it, see **Obtaining a Project ID**.
instance_id	Yes	String	Instance ID.

Request Parameters

None

Response Parameters

Status code: 200

Table 5-183 Response body parameters

Parameter	Type	Description
users	Array of **ShowInstanceUsersEntity** objects	User list.

Table 5-184 ShowInstanceUsersEntity

Parameter	Type	Description
user_name	String	Username. A username must start with a letter. It can contain 4 to 64 characters. Only letters, digits, underscores (_), and hyphens (-) are allowed.
user_desc	String	User description.
role	String	User role.
default_app	Boolean	Whether an application is the default application.
created_time	Long	Creation time.

Example Requests

Querying the user list.

```
GET https://{endpoint}/v2/{project_id}/instances/{instance_id}/users
```

Example Responses

Status code: 200

The query is successful.

```
{
  "users" : [ {
    "user_name" : "xxxa",
    "role" : "guest",
    "default_app" : false,
    "created_time" : 1615431764734
  }, {
    "user_name" : "test",
    "role" : "guest",
    "default_app" : false,
    "created_time" : 1615364062463
  }, {
    "user_name" : "ROOT",
    "role" : "guest",
    "default_app" : false,
    "created_time" : 1617194246328
  } ]
}
```

Status Codes

Status Code	Description
200	The query is successful.

Error Codes

See **Error Codes**.

5.6.2 Creating a User

Function

This API is used to create a user for a Kafka instance for which SASL is enabled.

URI

POST /v2/{project_id}/instances/{instance_id}/users

Table 5-185 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain it, see **Obtaining a Project ID**.
instance_id	Yes	String	Instance ID.

Request Parameters

Table 5-186 Request body parameters

Parameter	Mandatory	Type	Description
user_name	No	String	Username. This parameter is mandatory for creating a user.
user_desc	No	String	User description.

Parameter	Mandatory	Type	Description
user_passwd	No	String	Password. This parameter is mandatory for creating a user. The password must be different from the username. The password must meet the following complexity requirements: • Can contain 8 to 32 characters. • Must contain at least three of the following character types: – Lowercase letters – Uppercase letters – Digits – Special characters include (`~!@#$ %^&*()-_=+|[{}]:'",<.>/?) and spaces, and cannot start with a hyphen (-).

Response Parameters

Status code: 204

The creation is successful.

Status code: 400

Table 5-187 Response body parameters

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

Status code: 403

Table 5-188 Response body parameters

Parameter	Type	Description
error_code	String	Error code.

Parameter	Type	Description
error_msg	String	Error description.

Example Requests

Creating a user whose username is test and password is Cxxx3

```
POST https://{endpoint}/v2/{project_id}/instances/{instance_id}/users

{
  "user_name" : "test",
  "user_passwd" : "Cxxx3"
}
```

Example Responses

None

Status Codes

Status Code	Description
204	The creation is successful.
400	Invalid parameters.
403	Authentication failed.

Error Codes

See **Error Codes**.

5.6.3 Deleting Users in Batches

Function

This API is used to delete multiple users of a Kafka instance.

URI

PUT /v2/{project_id}/instances/{instance_id}/users

Table 5-189 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain it, see **Obtaining a Project ID**.

Parameter	Mandatory	Type	Description
instance_id	Yes	String	Instance ID.

Request Parameters

Table 5-190 Request body parameters

Parameter	Mandatory	Type	Description
action	No	String	Deletion type. Currently, only **delete** is supported. This parameter is mandatory for deleting a user.
users	No	Array of strings	User list. This parameter is mandatory for deleting a user.

Response Parameters

Status code: 204

The deletion is successful.

None

Example Requests

Deleting users in batches.

```
PUT https://{endpoint}/v2/{project_id}/instances/{instance_id}/users

{
  "action" : "delete",
  "users" : [ "testuser" ]
}
```

Example Responses

None

Status Codes

Status Code	Description
204	The deletion is successful.

Error Codes

See **Error Codes**.

5.6.4 Resetting a User Password

Function

This API is used to reset a user password.

URI

PUT /v2/{project_id}/instances/{instance_id}/users/{user_name}

Table 5-191 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain it, see **Obtaining a Project ID**.
instance_id	Yes	String	Instance ID.
user_name	Yes	String	Username.

Request Parameters

Table 5-192 Request body parameters

Parameter	Mandatory	Type	Description
new_password	No	String	New password. This parameter is mandatory for resetting a user password. It cannot be the username or the username spelled backwards. The password must meet the following complexity requirements: • Can contain 8 to 32 characters. • Must contain at least three of the following character types: – Lowercase letters – Uppercase letters – Digits – Special characters include (`~!@#$ %^&*()-_=+|[{}]:'",<.>/?) and spaces, and cannot start with a hyphen (-).

Response Parameters

Status code: 204

Password reset successfully.

None

Example Requests

Resetting a user password.

```
PUT https://{endpoint}/v2/{project_id}/instances/{instance_id}/users/{user_name}

{
  "new_password" : "Cxxx3"
}
```

Example Responses

None

Status Codes

Status Code	Description
204	Password reset successfully.

Error Codes

See **Error Codes**.

5.6.5 Querying User Permissions

Function

This API is used to query user permissions.

User management is supported only when SASL is enabled for the Kafka instance.

URI

GET /v1/{project_id}/instances/{instance_id}/topics/{topic_name}/accesspolicy

Table 5-193 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain it, see **Obtaining a Project ID**.
instance_id	Yes	String	Instance ID.
topic_name	Yes	String	Topic name.

Request Parameters

None

Response Parameters

Status code: 200

Table 5-194 Response body parameters

Parameter	Type	Description
name	String	Topic name.
topic_type	Integer	Topic type.

Parameter	Type	Description
policies	Array of **PolicyEntity** objects	New brokers use the standby subnet ID in instance expansion. This value is transferred when a standby subnet is used in instance expansion. Contact customer service to use the value.

Table 5-195 PolicyEntity

Parameter	Type	Description
owner	Boolean	Whether a user is the one selected during topic creation.
user_name	String	Username.
access_policy	String	Permission type. • **all**: subscribe and publish permissions. • **pub**: publish permissions. • **sub**: subscribe permissions.

Example Requests

Querying user permissions for a topic.

```
GET https://{endpoint}/v1/{project_id}/instances/{instance_id}/topics/{topic_name}/accesspolicy
```

Example Responses

Status code: 200

The query is successful.

```
{
  "name" : "topic-test",
  "policies" : [ {
    "owner" : false,
    "user_name" : "xxxa",
    "access_policy" : "pub"
  }, {
    "owner" : false,
    "user_name" : "root",
    "access_policy" : "all"
  } ],
  "topic_type" : 0
}
```


Status Codes

Status Code	Description
200	The query is successful.

Error Codes

See **Error Codes**.

5.6.6 Granting User Permissions

Function

This API is used to grant user permissions.

User management is supported only when SASL is enabled for the Kafka instance.

URI

POST /v1/{project_id}/instances/{instance_id}/topics/accesspolicy

Table 5-196 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain it, see **Obtaining a Project ID**.
instance_id	Yes	String	Instance ID.

Request Parameters

Table 5-197 Request body parameters

Parameter	Mandatory	Type	Description
topics	Yes	Array of **AccessPolicyTopicEntity** objects	Topic list.

Table 5-198 AccessPolicyTopicEntity

Parameter	Mandatory	Type	Description
name	Yes	String	Topic name.
policies	Yes	Array of **AccessPolicyEntity** objects	Permission list.

Table 5-199 AccessPolicyEntity

Parameter	Mandatory	Type	Description
user_name	No	String	Username. This parameter is mandatory when you set user permissions.
access_policy	No	String	Permission type. • **all**: publish and subscribe permissions. • **pub**: publish permissions. • **sub**: subscribe permissions. This parameter is mandatory when you set user permissions.

Response Parameters

Status code: 200

Table 5-200 Response body parameters

Parameter	Type	Description
job_id	String	**Definition**: Background task ID **Range**: N/A

Status code: 400

Table 5-201 Response body parameters

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

Status code: 403

Table 5-202 Response body parameters

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

Example Requests

Granting the root user the permission to publish and subscribe to topic-test

```
POST https://{endpoint}/v1/{project_id}/instances/{instance_id}/topics/accesspolicy

{
  "topics" : [ {
    "name" : "topic-test",
    "policies" : [ {
      "user_name" : "root",
      "access_policy" : "all"
    } ]
  } ]
}
```

Example Responses

Status code: 200

User permission setting task submitted successfully.

```
{
  "job_id" : "8a2c259182ab0e9d0182ab1882560010"
}
```

Status Codes

Status Code	Description
200	User permission setting task submitted successfully.
400	Invalid parameters.
403	Authentication failed.

Error Codes

See **Error Codes**.

5.7 Managing Messages

5.7.1 Querying Messages

Function

This API is used to query the offset and content of a message.

This API queries the message offset based on the timestamp and then queries the message content based on the offset.

URI

GET /v2/{project_id}/instances/{instance_id}/messages

Table 5-203 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: Project ID. For details, see **Obtaining a Project ID**. **Constraints**: N/A **Range**: N/A **Default Value**: N/A
instance_id	Yes	String	**Definition**: Instance ID. You can call the API for querying all instances to obtain the instance ID. The instance ID is in the response body. **Constraints**: N/A **Range**: N/A **Default Value**: N/A

Table 5-204 Query Parameters

Parameter	Mandatory	Type	Description
topic	Yes	String	**Definition**: Topic name. **Constraints**: A topic name must start with a letter and can only contain letters, hyphens (-), underscores (_), and digits. **Range**: N/A **Default Value**: N/A
asc	No	Boolean	**Definition**: Whether to sort messages by time. **Constraints**: N/A **Range**: • **true**: Yes • **false**: No **Default Value**: N/A
start_time	No	String	**Definition**: Start time. The value is a Unix timestamp, in millisecond. **Constraints**: This parameter is mandatory when you query the message offset. **Range**: N/A **Default Value**: N/A

Parameter	Mandatory	Type	Description
end_time	No	String	**Definition**: End time. The value is a Unix timestamp, in millisecond. **Constraints**: This parameter is mandatory when you query the message offset. **Range**: N/A **Default Value**: N/A
limit	No	String	**Definition**: Number of messages displayed on each page. **Constraints**: N/A **Range**: N/A **Default Value**: N/A
offset	No	String	**Definition**: Page number. **Constraints**: N/A **Range**: N/A **Default Value**: N/A
download	No	Boolean	**Definition**: Whether to download messages to the local. **Constraints**: N/A **Range**: • **true**: Yes • **false**: No **Default Value**: N/A

Parameter	Mandatory	Type	Description
message_offset	No	String	**Definition**: Message offset. **Constraints**: This parameter is mandatory when you query the message content. If **start_time** and **end_time** are not empty, this parameter is invalid. **Range**: N/A **Default Value**: N/A
partition	No	String	**Definition**: Partition. **Constraints**: This parameter is mandatory when you query the message content. If **start_time** and **end_time** are not empty, this parameter is invalid. **Range**: N/A **Default Value**: N/A
keyword	No	String	**Definition**: Keyword for querying messages. **Constraints**: N/A **Range**: 0 to 50 characters. **Default Value**: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 5-205 Response body parameters

Parameter	Type	Description
messages	Array of **MessagesEntity** objects	**Definition**: Message list.
total	Long	**Definition**: Total number of messages. **Range**: N/A
size	Long	**Definition**: Number of records on each page. **Range**: N/A

Table 5-206 MessagesEntity

Parameter	Type	Description
topic	String	**Definition**: Topic name. **Range**: N/A
partition	Integer	**Definition**: Partition where the message is located. **Range**: N/A
key	String	**Definition**: Message key. **Range**: N/A
value	String	**Definition**: Message content. **Range**: N/A

Parameter	Type	Description
size	Integer	**Definition**: Message size. **Range**: N/A
timestamp	Long	**Definition**: Message production time. The value is a Unix timestamp. The unit is millisecond. **Range**: N/A
huge_message	Boolean	**Definition**: Big data flag. **Range**: N/A
message_offset	Long	**Definition**: Message offset. **Range**: N/A
message_id	String	**Definition**: Message ID. **Range**: N/A
app_id	String	**Definition**: Application ID. **Range**: N/A
tag	String	**Definition**: Message tag. **Range**: N/A

Status code: 400

Table 5-207 Response body parameters

Parameter	Type	Description
error_code	String	Error code.

Parameter	Type	Description
error_msg	String	Error description.

Status code: 403

Table 5-208 Response body parameters

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

Example Requests

- Querying the message offset.

  ```
  GET https://{endpoint}/v2/{project_id}/instances/{instance_id}/messages?
  asc=false&end_time=1608609032042&limit=10&offset=0&start_time=1608608432042&topic=topic-test
  ```

- Querying the message content.

  ```
  GET https://{endpoint}/v2/{project_id}/instances/{instance_id}/messages?
  download=false&message_offset=0&partition=0&topic=topic-test
  ```

Example Responses

Status code: 200

The query is successful.

```
{
  "messages" : [ {
    "topic" : "topic-test",
    "partition" : 0,
    "value" : "hello world",
    "size" : 21,
    "timestamp" : 1607598463502,
    "huge_message" : false,
    "message_offset" : 4,
    "message_id" : "",
    "app_id" : "",
    "tag" : ""
  } ],
  "total" : 1,
  "size" : 1
}
```

Status Codes

Status Code	Description
200	The query is successful.
400	Invalid parameters.

Status Code	Description
403	Authentication failed.

Error Codes

See **Error Codes**.

5.7.2 Querying a Message with a Specified Offset

Function

This API is used to query a message with a specified offset.

URI

GET /v2/{project_id}/instances/{instance_id}/management/topics/{topic}/partitions/{partition}/message

Table 5-209 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Parameter description**: Project ID. For details, see **Obtaining a Project ID**. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
instance_id	Yes	String	**Definition**: Instance ID. You can call the API for querying all instances to obtain the instance ID. The instance ID is in the response body. **Constraints**: N/A **Range**: N/A **Default Value**: N/A

Parameter	Mandatory	Type	Description
topic	Yes	String	**Parameter description**: Topic name. **Constraints**: A topic name must start with a letter and can only contain letters, hyphens (-), underscores (_), and digits. **Value range**: N/A **Default value**: N/A
partition	Yes	Integer	**Parameter description**: Partition ID. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

Table 5-210 Query Parameters

Parameter	Mandatory	Type	Description
message_offset	Yes	String	**Parameter description**: Message offset. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 5-211 Response body parameters

Parameter	Type	Description
message	Array of **ShowPartitionMessageEntity** objects	**Parameter description**: Message list.

Table 5-212 ShowPartitionMessageEntity

Parameter	Type	Description
key	String	**Parameter description**: Message key. **Value range**: N/A
value	String	**Parameter description**: Message content. **Value range**: N/A
topic	String	**Parameter description**: Topic name. **Value range**: N/A
partition	Integer	**Parameter description**: Partition ID. **Value range**: N/A
message_offset	Long	**Parameter description**: Message offset. **Value range**: N/A
size	Integer	**Parameter description**: Message size, in bytes. **Value range**: N/A

Parameter	Type	Description
timestamp	Long	**Parameter description**: Message production time. The value is a Unix timestamp. The unit is millisecond. **Value range**: N/A

Example Requests

```
GET https://{endpoint}/v2/{project_id}/instances/{instance_id}/management/topics/{topic}/partitions/{partition}/message?message_offset={message_offset}
```

Example Responses

Status code: 200

The message with the specified offset is queried successfully.

```
{
  "message" : [ {
    "topic" : "mytest",
    "partition" : 0,
    "message_offset" : 7,
    "key" : null,
    "value" : "kasjdf",
    "size" : 6,
    "timestamp" : 1568125036045
  } ]
}
```

Status Codes

Status Code	Description
200	The message with the specified offset is queried successfully.

Error Codes

See **Error Codes**.

5.7.3 Querying a Message with a Specified Time Period

Function

This API is used to query a message with a specified time period.

URI

GET /v2/{project_id}/instances/{instance_id}/management/topics/{topic}/messages

Table 5-213 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Parameter description**: Project ID. For details, see **Obtaining a Project ID**. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
instance_id	Yes	String	**Definition**: Instance ID. You can call the API for querying all instances to obtain the instance ID. The instance ID is in the response body. **Constraints**: N/A **Range**: N/A **Default Value**: N/A
topic	Yes	String	**Parameter description**: Topic name. **Constraints**: A topic name must start with a letter and can only contain letters, hyphens (-), underscores (_), and digits. **Value range**: N/A **Default value**: N/A

Table 5-214 Query Parameters

Parameter	Mandatory	Type	Description
start_time	No	String	**Parameter description**: Query start time as a Unix timestamp. **Constraints**: N/A **Value range**: N/A **Default value**: 0
end_time	No	String	**Parameter description**: Query end time as a Unix timestamp. **Constraints**: N/A **Value range**: N/A **Default value**: Current system time.
limit	No	Integer	**Parameter description**: Number of messages returned on a page. **Constraints**: N/A **Value range**: N/A **Default value**: 10
offset	No	Integer	**Parameter description**: Offset, which is the position where the query starts. **Constraints**: N/A **Value range**: ≥ 0 **Default value**: N/A

Parameter	Mandatory	Type	Description
partition	No	String	**Parameter description**: Partition ID. **Constraints**: N/A **Value range**: N/A **Default value**: The default value is **-1**, indicating that all partitions are queried.

Request Parameters

None

Response Parameters

Status code: 200

Table 5-215 Response body parameters

Parameter	Type	Description
messages	Array of **messages** objects	**Parameter description**: Message list.
messages_count	Integer	**Parameter description**: Total number of messages. **Value range**: N/A
offsets_count	Integer	**Parameter description**: Total number of pages. **Value range**: N/A
offset	Integer	**Parameter description**: Current page number. **Value range**: N/A

Table 5-216 messages

Parameter	Type	Description
topic	String	**Parameter description**: Topic name. **Value range**: N/A
partition	Integer	**Parameter description**: Partition ID. **Value range**: N/A
message_offset	Long	**Parameter description**: Message ID. **Value range**: N/A
size	Integer	**Parameter description**: Message size, in bytes. **Value range**: N/A
timestamp	Long	**Parameter description**: Message production time. The value is a Unix timestamp. The unit is millisecond. **Value range**: N/A

Example Requests

```
GET https://{endpoint}/v2/{project_id}/instances/{instance_id}/management/topics/{topic}/messages
```

Example Responses

Status code: 200

The message with the specified time period is queried successfully.

```
{
  "messages" : [ {
    "topic" : "mytest",
    "partition" : 0,
    "message_offset" : 7,
    "size" : 6,
    "timestamp" : 1568125036045
  } ],
  "messages_count" : 1,
  "offsets_count" : 1,
```



```
  "offset" : 1
}
```

Status Codes

Status Code	Description
200	The message with the specified time period is queried successfully.

Error Codes

See **Error Codes**.

5.7.4 Querying Offset of the Earliest Message in a Partition

Function

This API is used to query the offset of the earliest message in a partition.

URI

GET /v2/{project_id}/instances/{instance_id}/management/topics/{topic}/partitions/{partition}/beginning-message

Table 5-217 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Parameter description**: Project ID. For details, see **Obtaining a Project ID**. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

Parameter	Mandatory	Type	Description
instance_id	Yes	String	**Definition**: Instance ID. You can call the API for querying all instances to obtain the instance ID. The instance ID is in the response body. **Constraints**: N/A **Range**: N/A **Default Value**: N/A
topic	Yes	String	**Parameter description**: Topic name. **Constraints**: A topic name must start with a letter and can only contain letters, hyphens (-), underscores (_), and digits. **Value range**: N/A **Default value**: N/A
partition	Yes	Integer	**Parameter description**: Partition ID. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 5-218 Response body parameters

Parameter	Type	Description
topic	String	**Parameter description**: Topic name. **Value range**: N/A
partition	Integer	**Parameter description**: Partition ID. **Value range**: N/A
offset	Integer	**Parameter description**: Message offset. **Value range**: N/A
timestamp	Long	**Parameter description**: Message production time. The value is a Unix timestamp. The unit is millisecond. **Value range**: N/A

Example Requests

```
GET https://{endpoint}/v2/{project_id}/instances/{instance_id}/management/topics/{topic}/partitions/{partition}/beginning-message
```

Example Responses

Status code: 200

The offset of the earliest message in a partition is queried successfully.

```
{
  "topic" : "mytest",
  "partition" : 0,
  "offset" : 9,
  "timestamp" : 1568125039164
}
```

Status Codes

Status Code	Description
200	The offset of the earliest message in a partition is queried successfully.

Error Codes

See **Error Codes**.

5.7.5 Querying Offset of the Latest Message in a Partition

Function

This API is used to query the offset of the latest message in a partition.

URI

GET /v2/{project_id}/instances/{instance_id}/management/topics/{topic}/partitions/{partition}/end-message

Table 5-219 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Parameter description**: Project ID. For details, see **Obtaining a Project ID**. **Constraints**: N/A **Value range**: N/A **Default value**: N/A
instance_id	Yes	String	**Definition**: Instance ID. You can call the API for querying all instances to obtain the instance ID. The instance ID is in the response body. **Constraints**: N/A **Range**: N/A **Default Value**: N/A

Parameter	Mandatory	Type	Description
topic	Yes	String	**Parameter description**: Topic name. **Constraints**: A topic name must start with a letter and can only contain letters, hyphens (-), underscores (_), and digits. **Value range**: N/A **Default value**: N/A
partition	Yes	Integer	**Parameter description**: Partition ID. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 5-220 Response body parameters

Parameter	Type	Description
topic	String	**Parameter description**: Topic name. **Value range**: N/A
partition	Integer	**Parameter description**: Partition ID. **Value range**: N/A

Parameter	Type	Description
offset	Integer	**Parameter description**: Message offset. **Value range**: N/A
timestamp	Long	**Parameter description**: Message production time. The value is a Unix timestamp. The unit is millisecond. **Value range**: N/A

Example Requests

```
GET https://{endpoint}/v2/{project_id}/instances/{instance_id}/management/topics/{topic}/partitions/{partition}/end-message
```

Example Responses

Status code: 200

The offset of the latest message in a partition is queried successfully.

```
{
  "topic" : "mytest",
  "partition" : 0,
  "offset" : 9,
  "timestamp" : 1568125039164
}
```

Status Codes

Status Code	Description
200	The offset of the latest message in a partition is queried successfully.

Error Codes

See **Error Codes**.

5.7.6 Deleting a Kafka Message

Function

This API is used to delete a Kafka message.

URI

DELETE /v2/{project_id}/kafka/instances/{instance_id}/topics/{topic}/messages

Table 5-221 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see **Obtaining a Project ID**.
instance_id	Yes	String	Instance ID.
topic	Yes	String	Topic name.

Request Parameters

Table 5-222 Request body parameters

Parameter	Mandatory	Type	Description
partitions	No	Array of **PartitionOffsetEntity** objects	Partition offset details.

Table 5-223 PartitionOffsetEntity

Parameter	Mandatory	Type	Description
partition	No	Integer	Partition.
offset	No	Integer	Consumer offset.

Response Parameters

Status code: 200

Table 5-224 Response body parameters

Parameter	Type	Description
partitions	Array of **PartitionResp** objects	Partition response information.

Table 5-225 PartitionResp

Parameter	Type	Description
partition	Integer	Partition.
result	String	Returned result.
error_code	String	Returned error code.

Example Requests

```
DELETE https://{endpoint}/v2/{project_id}/kafka/instances/{instance_id}/topics/{topic}/messages
```

Example Responses

Status code: 200

Successful

```
{
  "partitions" : [ {
    "partition" : 0,
    "result" : "success",
    "error_code" : 0
  } ]
}
```

Status Codes

Status Code	Description
200	Successful

Error Codes

See **Error Codes**.

5.8 Background Task Management

5.8.1 Listing Background Tasks

Function

This API is used to list background tasks of an instance.

URI

GET /v2/{project_id}/instances/{instance_id}/tasks

Table 5-226 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain it, see **Obtaining a Project ID**.
instance_id	Yes	String	Instance ID.

Table 5-227 Query Parameters

Parameter	Mandatory	Type	Description
start	No	Integer	ID of the task where the query starts.
limit	No	Integer	Number of tasks to be queried.
begin_time	No	String	Time of task where the query starts. The format is YYYYMMDDHHmmss.
end_time	No	String	Time of task where the query ends. The format is YYYYMMDDHHmmss.

Request Parameters

None

Response Parameters

Status code: 200

Table 5-228 Response body parameters

Parameter	Type	Description
task_count	String	Number of tasks.
tasks	Array of **tasks** objects	Task list.

Table 5-229 tasks

Parameter	Type	Description
id	String	Task ID.

Parameter	Type	Description
name	String	Task name.
user_name	String	Username.
user_id	String	User ID.
params	String	Task parameters.
status	String	Task status.
created_at	String	Start time.
updated_at	String	End time.

Example Requests

```
'GET https://{endpoint}/v2/{project_id}/instances/{instance_id}/tasks?
start={start}&limit={limit}&begin_time={begin_time}&end_time={end_time}'
```

Example Responses

Status code: 200

Background tasks are listed successfully.


```
{
  "task_count" : "4",
  "tasks" : [ {
    "id" : "8abfa7b372160bfd0172165864064079",
    "name" : "modifyAutoTopic",
    "user_name" : "paas_dms",
    "user_id" : "3df5acbc24a54fadb62a043c9000a307",
    "params" : "{\"old_auto_status\":true,\"new_auto_status\":false}",
    "status" : "EXECUTING",
    "created_at" : "2020-05-15T03:19:51.046Z",
    "updated_at" : "2020-05-15T03:19:51.065Z"
  }, {
    "id" : "8abfa7b372160bfd017216560af83e6e",
    "name" : "changeRetentionPolicy",
    "user_name" : "paas_dms",
    "user_id" : "3df5acbc24a54fadb62a043c9000a307",
    "params" : "{\"new_retention_policy\":\"produce_reject\",\"origin_retention_policy\":\"time_base\"}",
    "status" : "SUCCESS",
    "created_at" : "2020-05-15T03:17:17.176Z",
    "updated_at" : "2020-05-15T03:17:22.162Z"
  } ]
}
```


Status Codes

Status Code	Description
200	Background tasks are listed successfully.

Error Codes

See **Error Codes**.

5.8.2 Querying a Background Task

Function

This API is used to query a specified background task.

URI

GET /v2/{project_id}/instances/{instance_id}/tasks/{task_id}

Table 5-230 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain it, see **Obtaining a Project ID**.
instance_id	Yes	String	Instance ID.
task_id	Yes	String	Task ID.

Request Parameters

None

Response Parameters

Status code: 200

Table 5-231 Response body parameters

Parameter	Type	Description
task_count	String	Number of tasks.
tasks	Array of **tasks** objects	Task list.

Table 5-232 tasks

Parameter	Type	Description
id	String	Task ID.
name	String	Task name.

Parameter	Type	Description
user_name	String	Username.
user_id	String	User ID.
params	String	Task parameters.
status	String	Task status.
created_at	String	Start time.
updated_at	String	End time.

Example Requests

```
GET https://{endpoint}/v2/{project_id}/instances/{instance_id}/tasks/{task_id}
```

Example Responses

Status code: 200

The query is successful.

```
{
  "task_count" : "1",
  "tasks" : [ {
    "id" : "8abfa7b272adc5b40172b73130065ae7",
    "name" : "bindInstancePublicIp",
    "user_name" : "paas_dms",
    "user_id" : "3df5acbc24a54fadb62a043c9000a307",
    "params" : "{\"public_ip_id\":\"1aea7aed-e7d8-40ea-b3de-6f3ee9d5db9f\",\"public_ip_address
\":\"100.93.2.18\",\"enable_public_ip\":true}",
    "status" : "SUCCESS",
    "created_at" : "2020-06-15T08:55:53.606Z",
    "updated_at" : "2020-06-15T08:55:56.600Z"
  } ]
}
```

Status Codes

Status Code	Description
200	The query is successful.

Error Codes

See **Error Codes**.

5.8.3 Deleting a Background Task

Function

This API is used to delete a specified background task.

URI

DELETE /v2/{project_id}/instances/{instance_id}/tasks/{task_id}

Table 5-233 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain it, see **Obtaining a Project ID**.
instance_id	Yes	String	Instance ID.
task_id	Yes	String	Task ID.

Request Parameters

None

Response Parameters

Status code: 204

The background task is deleted successfully.

None

Example Requests

Deleting a specified background task

```
DELETE https://{endpoint}/v2/{project_id}/instances/{instance_id}/tasks/{task_id}
```

Example Responses

None

Status Codes

Status Code	Description
204	The background task is deleted successfully.

Error Codes

See **Error Codes**.

5.9 Tag Management

5.9.1 Batch Adding or Deleting Tags

Function

This API is used to add or delete instance tags in batches.

URI

POST /v2/{project_id}/kafka/{instance_id}/tags/action

Table 5-234 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain it, see **Obtaining a Project ID**.
instance_id	Yes	String	Instance ID.

Request Parameters

Table 5-235 Request body parameters

Parameter	Mandatory	Type	Description
action	No	String	Operation. Only lowercase letters are supported. • **create**: Tags are created. • **delete**: Tags are deleted.
tags	No	Array of **TagEntity** objects	Tag list.

Table 5-236 TagEntity

Parameter	Mandatory	Type	Description
key	No	String	**Definition**: Tag key. **Constraints**: • Cannot be left blank. • Must be unique for the same instance. • Can contain 1 to 128 characters. • Can contain letters, digits, spaces, and special characters _.:=+-@ • Cannot start with ***sys*** • Cannot start or end with a space. **Range**: N/A **Default Value**: N/A
value	No	String	**Definition**: Tag value. **Constraints**: • Can contain 0 to 255 characters. • Can contain letters, digits, spaces, and special characters _.:=+-@ **Range**: N/A **Default Value**: N/A

Response Parameters

Status code: 204

Tags are successfully added or deleted.

None

Example Requests

Creating instance tags with tag keys key1 and key2 and tag values value1 and value2

```
POST https://{endpoint}/v2/{project_id}/kafka/{instance_id}/tags/action

{
  "action" : "create",
  "tags" : [ {
    "key" : "key1",
    "value" : "value1"
  }, {
    "key" : "key2",
    "value" : "value2"
  } ]
}
```

Example Responses

None

Status Codes

Status Code	Description
204	Tags are successfully added or deleted.

Error Codes

See **Error Codes**.

5.9.2 Listing Tags of an Instance

Function

This API is used to query instance tags.

URI

GET /v2/{project_id}/kafka/{instance_id}/tags

Table 5-237 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain it, see **Obtaining a Project ID**.
instance_id	Yes	String	Instance ID.

Request Parameters

None

Response Parameters

Status code: 200

Table 5-238 Response body parameters

Parameter	Type	Description
tags	Array of **TagEntity** objects	Tag list.

Table 5-239 TagEntity

Parameter	Type	Description
key	String	**Definition**: Tag key. **Constraints**: • Cannot be left blank. • Must be unique for the same instance. • Can contain 1 to 128 characters. • Can contain letters, digits, spaces, and special characters _.:=+-@ • Cannot start with ***sys*** • Cannot start or end with a space. **Range**: N/A **Default Value**: N/A
value	String	**Definition**: Tag value. **Constraints**: • Can contain 0 to 255 characters. • Can contain letters, digits, spaces, and special characters _.:=+-@ **Range**: N/A **Default Value**: N/A

Example Requests

```
GET https://{endpoint}/v2/{project_id}/kafka/{instance_id}/tags
```

Example Responses

Status code: 200

The instance tags are listed successfully.

```
{
  "tags" : [ {
    "key" : "key1",
    "value" : "value1"
  }, {
    "key" : "key2",
    "value" : "value2"
  } ]
}
```

Status Codes

Status Code	Description
200	The instance tags are listed successfully.

Error Codes

See **Error Codes**.

5.9.3 Listing Tags of a Project

Function

This API is used to query project tags.

URI

GET /v2/{project_id}/kafka/tags

Table 5-240 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Parameter description**: Project ID. For details, see **Obtaining a Project ID**. **Constraints**: N/A **Value range**: N/A **Default value**: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 5-241 Response body parameters

Parameter	Type	Description
tags	Array of **TagMultyValueEntity** objects	**Parameter description**: Tag list.

Table 5-242 TagMultyValueEntity

Parameter	Type	Description
key	String	**Parameter description**: Tag key. **Value range**: N/A
values	Array of strings	**Parameter description**: Tag value. **Value range**: N/A

Example Requests

```
GET https://{endpoint}/v2/{project_id}/kafka/tags
```

Example Responses

Status code: 200

The project tags are listed successfully.

```
{
  "tags" : [ {
    "key" : "key1",
    "values" : [ "value-test", "value1" ]
  }, {
    "key" : "key2",
    "values" : [ "value2" ]
  } ]
}
```

Status Codes

Status Code	Description
200	The project tags are listed successfully.

Error Codes

See **Error Codes**.

5.10 Other APIs

5.10.1 Listing Maintenance Time Windows

Function

This API is used to query the start time and end time of maintenance time windows.

URI

GET /v2/instances/maintain-windows

Request Parameters

None

Response Parameters

Status code: 200

Table 5-243 Response body parameters

Parameter	Type	Description
maintain_windows	Array of **MaintainWindowsEntity** objects	List of supported maintenance time windows.

Table 5-244 MaintainWindowsEntity

Parameter	Type	Description
default	Boolean	Whether the maintenance time window is set to the default time segment.
end	String	End time of the maintenance time window.
begin	String	Start time of the maintenance time window.
seq	Integer	Sequence number.

Example Requests

```
GET https://{endpoint}/v2/instances/maintain-windows
```

Example Responses

Status code: 200

Query succeeded.

```
{
  "maintain_windows" : [ {
    "default" : false,
    "seq" : 1,
    "begin" : "22",
    "end" : "02"
  }, {
    "default" : true,
    "seq" : 2,
    "begin" : "02",
    "end" : "06"
  }, {
    "default" : false,
    "seq" : 3,
    "begin" : "06",
    "end" : "10"
  }, {
    "default" : false,
    "seq" : 4,
    "begin" : "10",
    "end" : "14"
  }, {
    "default" : false,
    "seq" : 5,
```

```
    "begin" : "14",
    "end" : "18"
  }, {
    "default" : false,
    "seq" : 6,
    "begin" : "18",
    "end" : "22"
  } ]
}
```

Status Codes

Status Code	Description
200	Query succeeded.

Error Codes

See **Error Codes**.

5.10.2 Listing AZ Information

Function

This API is used to query the AZ ID for creating an instance.

URI

GET /v2/available-zones

Request Parameters

None

Response Parameters

Status code: 200

Table 5-245 Response body parameters

Parameter	Type	Description
region_id	String	**Parameter description**: Region ID. **Value range**: N/A
available_zones	Array of **AvailableZonesResp** objects	**Parameter description**: Array of AZs.

Table 5-246 AvailableZonesResp

Parameter	Type	Description
soldOut	Boolean	**Parameter description**: Indicates whether resources are sold out. **Value range**: • **true**: Yes • **false**: No
id	String	**Parameter description**: AZ ID. **Value range**: N/A
code	String	**Parameter description**: AZ code. **Value range**: N/A
name	String	**Parameter description**: AZ name. **Value range**: N/A
port	String	**Parameter description**: AZ port. **Value range**: N/A
resource_availability	String	**Parameter description**: Indicates whether the AZ has available resources. **Value range**: • **true**: Yes • **false**: No
default_az	Boolean	**Parameter description**: Whether the AZ is the default AZ. **Value range**: • **true**: Yes • **false**: No

Parameter	Type	Description
remain_time	Long	**Parameter description**: Remaining time, which is a Unix timestamp. **Value range**: N/A
ipv6_enable	Boolean	**Parameter description**: Whether IPv6 is supported. **Value range**: • **true**: Yes • **false**: No

Example Requests

```
GET https://{endpoint}/v2/available-zones
```

Example Responses

Status code: 200

The AZ information is queried successfully.

```
{
  "region_id" : "xxx",
  "available_zones" : [ {
    "soldOut" : false,
    "id" : "d539378ec1314c85b76fefa3f7071458",
    "code" : "xxx",
    "name" : "AZ 2.",
    "port" : "8003",
    "resource_availability" : "true",
    "default_az" : true,
    "remain_time" : 9223372036854776000,
    "ipv6_enable" : false
  }, {
    "soldOut" : false,
    "id" : "9f1c5806706d4c1fb0eb72f0a9b18c77",
    "code" : "xxx",
    "name" : "AZ 3.",
    "port" : "443",
    "resource_availability" : "true",
    "default_az" : false,
    "remain_time" : 9223372036854776000,
    "ipv6_enable" : false
  } ]
}
```

Status Codes

Status Code	Description
200	The AZ information is queried successfully.

Error Codes

See **Error Codes**.

5.10.3 Querying Product Specifications List

Function

This API is used to query the product specifications list.

URI

GET /v2/{engine}/products

Table 5-247 Path Parameters

Parameter	Mandatory	Type	Description
engine	Yes	String	**Definition**: Engine type. **Constraints**: N/A **Range**: kafka **Default Value**: N/A

Table 5-248 Query Parameters

Parameter	Mandatory	Type	Description
product_id	No	String	**Definition**: Product ID. **Constraints**: N/A **Range**: N/A **Default Value**: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 5-249 Response body parameters

Parameter	Type	Description
engine	String	**Definition**: Message engine of DMS. **Range**: Kafka
versions	Array of strings	**Definition**: Supported versions.
products	Array of **ListEngineProductsEntity** objects	**Definition**: Product specification details.

Table 5-250 ListEngineProductsEntity

Parameter	Type	Description
type	String	**Definition**: Product type. **Range**: • **single** • **cluster**
product_id	String	**Definition**: Product ID. **Range**: N/A
ecs_flavor_id	String	**Definition**: ECS flavor. **Range**: N/A
billing_code	String	**Definition**: Billing mode. **Range**: N/A
arch_types	Array of strings	**Definition**: CPU architecture.

Parameter	Type	Description
charging_mode	Array of strings	**Definition**: Billing mode.
ios	Array of **ListEngineIosEntity** objects	**Definition**: List of supported disk I/O types.
support_features	Array of **ListEngineSupportFeaturesEntity** objects	**Definition**: List of features supported by instances of the current specifications.
properties	**ListEnginePropertiesEntity** object	**Definition**: Attribute of instances of the current specifications.

Table 5-251 ListEngineIosEntity

Parameter	Type	Description
io_spec	String	**Definition**: Disk I/O code. **Range**: N/A
type	String	**Definition**: Disk type. **Range**: N/A
available_zones	Array of strings	**Definition**: AZ.
unavailable_zones	Array of strings	**Definition**: Unavailable AZs.

Table 5-252 ListEngineSupportFeaturesEntity

Parameter	Type	Description
name	String	**Definition**: Feature name. **Range**: N/A

Parameter	Type	Description
properties	**ListEngineSupportFeaturesPropertiesEntity** object	**Definition**: Description of the features supported by the instance.

Table 5-253 ListEngineSupportFeaturesPropertiesEntity

Parameter	Type	Description
max_task	String	**Definition**: Maximum number of Smart Connect tasks. **Range**: N/A
min_task	String	**Definition**: Minimum number of Smart Connect tasks. **Range**: N/A
max_node	String	**Definition**: Maximum number of Smart Connect nodes. **Range**: N/A
min_node	String	**Definition**: Minimum number of Smart Connect nodes. **Range**: N/A

Table 5-254 ListEnginePropertiesEntity

Parameter	Type	Description
max_partition_per_broker	String	**Definition**: Maximum number of partitions per broker. **Range**: N/A

Parameter	Type	Description
max_broker	String	**Definition**: Maximum number of brokers. **Range**: N/A
max_storage_per_node	String	**Definition**: Maximum storage per node. Unit: GB. **Range**: N/A
max_consumer_per_broker	String	**Definition**: Maximum number of consumers of each broker. **Range**: N/A
min_broker	String	**Definition**: Minimum number of brokers. **Range**: N/A
max_bandwidth_per_broker	String	**Definition**: Maximum bandwidth of each broker. **Range**: N/A
min_storage_per_node	String	**Definition**: Minimum storage per node. Unit: GB. **Range**: N/A
max_tps_per_broker	String	**Definition**: Maximum TPS of each broker. **Range**: N/A
product_alias	String	**Definition**: Alias of **product_id**. **Range**: N/A

Example Requests

```
GET https://{endpoint}/v2/kafka/products
```


Example Responses

Status code: 200

The product specifications are listed successfully.


```
{
  "engine" : "kafka",
  "versions" : [ "1.1.0", 2.7, "3.x" ],
  "products" : [ {
    "type" : "cluster",
    "product_id" : "c6.2u4g.cluster",
    "ecs_flavor_id" : "c6.large.2",
    "billing_code" : "dms.platinum.c6",
    "arch_types" : [ "X86" ],
    "charging_mode" : [ "monthly", "hourly" ],
    "ios" : [ {
      "io_spec" : "dms.physical.storage.high.v2",
      "type" : "evs",
      "available_zones" : [ "xxx", "xxx" ],
      "unavailable_zones" : [ "xxx", "xxx" ]
    }, {
      "io_spec" : "dms.physical.storage.ultra.v2",
      "type" : "evs",
      "available_zones" : [ "xxx", "xxx" ],
      "unavailable_zones" : [ "xxx", "xxx" ]
    } ],
    "support_features" : [ {
      "name" : "connector_obs",
      "properties" : {
        "max_task" : "10",
        "max_node" : "10",
        "min_task" : "1",
        "min_node" : "2"
      }
    } ],
    "properties" : {
      "max_partition_per_broker" : "250",
      "max_broker" : "30",
      "max_storage_per_node" : "10000",
      "max_consumer_per_broker" : "4000",
      "min_broker" : "3",
      "max_bandwidth_per_broker" : "100",
      "min_storage_per_node" : "200",
      "max_tps_per_broker" : "30000",
      "product_alias" : "kafka.2u4g.cluster"
    }
  }, {
    "type" : "cluster",
    "product_id" : "c6.4u8g.cluster",
    "ecs_flavor_id" : "c6.xlarge.2",
    "billing_code" : "dms.platinum.c6",
    "arch_types" : [ "X86" ],
    "charging_mode" : [ "monthly", "hourly" ],
    "ios" : [ {
      "io_spec" : "dms.physical.storage.high.v2",
      "type" : "evs",
      "available_zones" : [ "xxx", "xxx" ],
      "unavailable_zones" : [ "xxx", "xxx" ]
    }, {
      "io_spec" : "dms.physical.storage.ultra.v2",
      "type" : "evs",
      "available_zones" : [ "xxx", "xxx" ],
      "unavailable_zones" : [ "xxx", "xxx" ]
    } ],
    "support_features" : [ {
      "name" : "connector_obs",
      "properties" : {
        "max_task" : "10",
```



```
      "max_node" : "10",
      "min_task" : "1",
      "min_node" : "2"
    }
  } ],
  "properties" : {
    "max_partition_per_broker" : "500",
    "max_broker" : "30",
    "max_storage_per_node" : "20000",
    "max_consumer_per_broker" : "4000",
    "min_broker" : "3",
    "max_bandwidth_per_broker" : "100",
    "min_storage_per_node" : "400",
    "max_tps_per_broker" : "100000",
    "product_alias" : "kafka.4u8g.cluster"
  }
}, {
  "type" : "cluster",
  "product_id" : "c6.8u16g.cluster",
  "ecs_flavor_id" : "c6.2xlarge.2",
  "billing_code" : "dms.platinum.c6",
  "arch_types" : [ "X86" ],
  "charging_mode" : [ "monthly", "hourly" ],
  "ios" : [ {
    "io_spec" : "dms.physical.storage.high.v2",
    "type" : "evs",
    "available_zones" : [ "xxx", "xxx" ],
    "unavailable_zones" : [ "xxx", "xxx" ]
  }, {
    "io_spec" : "dms.physical.storage.ultra.v2",
    "type" : "evs",
    "available_zones" : [ "xxx", "xxx" ],
    "unavailable_zones" : [ "xxx", "xxx" ]
  } ],
  "support_features" : [ {
    "name" : "connector_obs",
    "properties" : {
      "max_task" : "10",
      "max_node" : "10",
      "min_task" : "1",
      "min_node" : "2"
    }
  } ],
  "properties" : {
    "max_partition_per_broker" : "1000",
    "max_broker" : "30",
    "max_storage_per_node" : "30000",
    "max_consumer_per_broker" : "4000",
    "min_broker" : "3",
    "max_bandwidth_per_broker" : "100",
    "min_storage_per_node" : "800",
    "max_tps_per_broker" : "150000",
    "product_alias" : "kafka.8u16g.cluster"
  }
}, {
  "type" : "cluster",
  "product_id" : "c6.12u24g.cluster",
  "ecs_flavor_id" : "c6.3xlarge.2",
  "billing_code" : "dms.platinum.c6",
  "arch_types" : [ "X86" ],
  "charging_mode" : [ "monthly", "hourly" ],
  "ios" : [ {
    "io_spec" : "dms.physical.storage.high.v2",
    "type" : "evs",
    "available_zones" : [ "xxx", "xxx" ],
    "unavailable_zones" : [ "xxx", "xxx" ]
  }, {
    "io_spec" : "dms.physical.storage.ultra.v2",
    "type" : "evs",
```



```
      "available_zones" : [ "xxx", "xxx" ],
      "unavailable_zones" : [ "xxx", "xxx" ]
    } ],
    "support_features" : [ {
      "name" : "connector_obs",
      "properties" : {
        "max_task" : "10",
        "max_node" : "10",
        "min_task" : "1",
        "min_node" : "2"
      }
    } ],
    "properties" : {
      "max_partition_per_broker" : "1500",
      "max_broker" : "30",
      "max_storage_per_node" : "30000",
      "max_consumer_per_broker" : "4000",
      "min_broker" : "3",
      "max_bandwidth_per_broker" : "100",
      "min_storage_per_node" : "1200",
      "max_tps_per_broker" : "200000",
      "product_alias" : "kafka.12u24g.cluster"
    }
  }, {
    "type" : "cluster",
    "product_id" : "c6.16u32g.cluster",
    "ecs_flavor_id" : "c6.4xlarge.2",
    "billing_code" : "dms.platinum.c6",
    "arch_types" : [ "X86" ],
    "charging_mode" : [ "monthly", "hourly" ],
    "ios" : [ {
      "io_spec" : "dms.physical.storage.high.v2",
      "type" : "evs",
      "available_zones" : [ "xxx", "xxx" ],
      "unavailable_zones" : [ "xxx", "xxx" ]
    }, {
      "io_spec" : "dms.physical.storage.ultra.v2",
      "type" : "evs",
      "available_zones" : [ "xxx", "xxx" ],
      "unavailable_zones" : [ "xxx", "xxx" ]
    } ],
    "support_features" : [ {
      "name" : "connector_obs",
      "properties" : {
        "max_task" : "10",
        "max_node" : "10",
        "min_task" : "1",
        "min_node" : "2"
      }
    } ],
    "properties" : {
      "max_partition_per_broker" : "2000",
      "max_broker" : "30",
      "max_storage_per_node" : "30000",
      "max_consumer_per_broker" : "4000",
      "min_broker" : "3",
      "max_bandwidth_per_broker" : "100",
      "min_storage_per_node" : "1600",
      "max_tps_per_broker" : "250000",
      "product_alias" : "kafka.16u32g.cluster"
    }
  } ]
}
```


Status Codes

Status Code	Description
200	The product specifications are listed successfully.

Error Codes

See **Error Codes**.

5.10.4 Querying Kafka Instance Monitoring Dimensions

Function

This API is used to query Kafka instance monitoring dimensions.

URI

GET /v2/{project_id}/instances/{instance_id}/ces-hierarchy

Table 5-255 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	**Definition**: Project ID. For details, see **Obtaining a Project ID**. **Constraints**: N/A **Range**: N/A **Default Value**: N/A
instance_id	Yes	String	**Definition**: Instance ID. You can call the API for querying all instances to obtain the instance ID. The instance ID is in the response body. **Constraints**: N/A **Range**: N/A **Default Value**: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 5-256 Response body parameters

Parameter	Type	Description
dimensions	Array of **dimensions** objects	**Definition**: Monitoring dimensions.
instance_ids	Array of **instance_ids** objects	**Definition**: Instance information.
nodes	Array of **nodes** objects	**Definition**: Node information.
queues	Array of **queues** objects	**Definition**: Queue information.
groups	Array of **groups** objects	**Definition**: Consumer group information.

Table 5-257 dimensions

Parameter	Type	Description
name	String	**Definition**: Monitoring dimension name. **Range**: N/A
metrics	Array of strings	**Definition**: Metric name.
key_name	Array of strings	**Definition**: Key used for monitoring query.
dim_router	Array of strings	**Definition**: Monitoring dimension route.

Parameter	Type	Description
children	Array of **children** objects	**Definition**: List of secondary dimensions.

Table 5-258 children

Parameter	Type	Description
name	String	**Definition**: Secondary dimension name. **Range**: N/A
metrics	Array of strings	**Definition**: Metrics on the secondary dimension. **Range**: N/A
key_name	Array of strings	**Definition**: Key used for monitoring query.
dim_router	Array of strings	**Definition**: Monitoring dimension route.

Table 5-259 instance_ids

Parameter	Type	Description
name	String	**Definition**: Instance ID. **Range**: N/A

Table 5-260 nodes

Parameter	Type	Description
name	String	**Definition**: Node name. **Range**: N/A

Table 5-261 queues

Parameter	Type	Description
name	String	**Definition**: Topic name. **Range**: N/A
partitions	Array of **partitions** objects	**Definition**: Partition list.

Table 5-262 partitions

Parameter	Type	Description
name	String	**Definition**: Partition name. **Range**: N/A

Table 5-263 groups

Parameter	Type	Description
name	String	**Definition**: Consumer group name. **Range**: N/A
queues	Array of **queues** objects	**Definition**: Topic information.

Table 5-264 queues

Parameter	Type	Description
name	String	**Definition**: Topic name. **Range**: N/A
partitions	Array of **partitions** objects	**Definition**: Partition information.

Table 5-265 partitions

Parameter	Type	Description
name	String	**Definition**: Partition name. **Range**: N/A

Example Requests

```
GET https://{endpoint}/v2/{project_id}/instances/{instance_id}/ces-hierarchy
```

Example Responses

Status code: 200

Query succeeded.


```
{
  "dimensions" : [ {
    "name" : "kafka_instance_id",
    "metrics" : [ "current_partitions", "current_topics", "group_messages" ],
    "key_name" : [ "instance_ids" ],
    "dim_router" : [ "kafka_instance_id" ]
  }, {
    "name" : "kafka_broker",
    "metrics" : [ "broker_data_size", "broker_messages_in_rate", "broker_bytes_out_rate",
"broker_bytes_in_rate", "broker_produce_mean", "broker_fetch_mean" ],
    "key_name" : [ "nodes" ],
    "dim_router" : [ "kafka_instance_id", "kafka_broker" ]
  }, {
    "name" : "kafka_rest",
    "metrics" : [ "rest_produce_success", "rest_produce_failed", "rest_produce_latency",
"rest_produce_msg_num", "rest_produce_flow", "rest_consume_success", "rest_consume_failed",
"rest_consume_latency", "rest_consume_msg_num", "rest_consume_flow", "rest_commit_success",
"rest_commit_failed", "rest_commit_latency", "rest_commit_msg_num", "rest_commit_flow" ],
    "key_name" : [ "nodes" ],
    "dim_router" : [ "kafka_instance_id", "kafka_rest" ]
  }, {
    "name" : "kafka_topics",
    "metrics" : [ "topic_data_size", "topic_messages_in_rate", "topic_bytes_out_rate", "topic_bytes_in_rate",
"topic_messages" ],
    "key_name" : [ "queues" ],
    "dim_router" : [ "kafka_instance_id", "kafka_topics" ],
    "children" : [ {
      "name" : "kafka_partitions",
      "metrics" : [ "produced_messages", "partition_messages" ],
      "key_name" : [ "queues", "partitions" ],
      "dim_router" : [ "kafka_instance_id", "kafka_topics", "kafka_partitions" ]
    } ]
  }, {
    "name" : "kafka_groups_partitions",
    "metrics" : [ "messages_consumed", "messages_remained" ],
    "key_name" : [ "groups", "queues", "partitions" ],
    "dim_router" : [ "kafka_instance_id", "kafka_groups", "kafka_groups_topics", "kafka_groups_partitions" ]
  } ],
  "instance_ids" : [ {
    "name" : "68f3f6a0-3741-453b-bda9-a6ff6b5bb6f7"
  } ],
  "nodes" : [ {
    "name" : "broker-0"
  }, {
```



```
    "name" : "broker-1"
  }, {
    "name" : "broker-2"
  } ],
  "queues" : [ {
    "name" : "aaaa",
    "partitions" : [ {
      "name" : "0"
    } ]
  }, {
    "name" : "mytest",
    "partitions" : [ {
      "name" : "0"
    }, {
      "name" : "1"
    }, {
      "name" : "2"
    } ]
  }, {
    "name" : "topic-84234378",
    "partitions" : [ {
      "name" : "0"
    }, {
      "name" : "1"
    }, {
      "name" : "2"
    } ]
  } ],
  "groups" : [ {
    "name" : "test-consumer-group",
    "queues" : [ {
      "name" : "mytest",
      "partitions" : [ {
        "name" : "0"
      }, {
        "name" : "1"
      }, {
        "name" : "2"
      } ]
    } ]
  } ]
}
```


Status Codes

Status Code	Description
200	Query succeeded.

Error Codes

See **Error Codes**.

5.10.5 Querying vCPUs of a Kafka Flavor

Function

This API is used to query the number of vCPUs of a Kafka flavor.

URI

GET /v2/kafka/products/cores

Table 5-266 Query Parameters

Parameter	Mandatory	Type	Description
instance_id	Yes	String	Instance ID.
product_id	Yes	String	Product ID.

Request Parameters

None

Response Parameters

Status code: 200

Table 5-267 Response body parameters

Parameter	Type	Description
core_num	Integer	Number of vCPUs.

Example Requests

```
GET https://{endpoint}/v2/kafka/products/cores
```

Example Responses

Status code: 200

Successful

```
{
  "core_num" : 100
}
```

Status Codes

Status Code	Description
200	Successful

Error Codes

See **Error Codes**.

6 Permissions and Supported Actions

This chapter describes fine-grained permissions management for your Kafka instances. If your account does not need individual IAM users, then you may skip over this chapter.

By default, new IAM users do not have permissions assigned. You need to add a user to one or more groups, and attach permissions policies or roles to these groups. Users inherit permissions from the groups to which they are added and can perform specified operations on cloud services based on the permissions.

You can grant users permissions by using roles and policies. Roles are a type of coarse-grained authorization mechanism that defines permissions related to user responsibilities. Policies define API-based permissions for operations on specific resources under certain conditions, allowing for more fine-grained, secure access control of cloud resources.

For details about DMS for Kafka system policies, see section "Permissions Management" in *Distributed Message Service for Kafka User Guide*.

NOTE

Policy-based authorization is useful if you want to allow or deny the access to an API.

An account has all of the permissions required to call all APIs, but IAM users must be assigned the required permissions. The permissions required for calling an API are determined by the actions supported by the API. Only users who have been granted permissions allowing the actions can call the API successfully. For example, if an IAM user wants to query Kafka instances using an API, the user must have been granted permissions that allow the **dms:instance:create** action.

Supported Actions

DMS for Kafka provides system-defined policies that can be directly used in IAM. You can also create custom policies and use them to supplement system-defined policies, implementing more refined access control. Operations supported by policies are specific to APIs. The following are common concepts related to policies:

- Permission: a statement in a policy that allows or denies certain operations.
- APIs: REST APIs that can be called by a user who has been granted specific permissions.

- Action: Specific operations that are allowed or denied.
- IAM projects or enterprise projects: A custom policy can be applied to IAM projects or enterprise projects or both. Policies that contain actions for both IAM and enterprise projects can be used and take effect for both IAM and Enterprise Management. Policies that only contain actions for IAM projects can be used and only take effect for IAM. Administrators can check whether an action supports IAM projects or enterprise projects in the action list.

DMS for Kafka supports the following actions in custom policies:

- **Lifecycle management actions**, including actions supported by Kafka instance lifecycle management APIs, such as the APIs for creating an instance, querying the instance list, modifying instance information, and batch restarting or deleting instances.
- **Instance management actions**, including actions supported by Kafka instance management APIs, such as the APIs for resetting passwords and configuring automatic topic creation.
- **Specification modification management action**, supported by the specification modification management API for modifying instance specifications.
- **Topic management actions**, including actions supported by topic management APIs, such as the APIs for creating, querying, and modifying topics.
- **User management actions**, including actions supported by user management APIs, such as the APIs for creating users, querying users, and configuring user permissions.
- **Message query actions**, including actions supported by message query APIs, such as the API for querying messages.
- **Background task management actions**, including actions supported by background task management APIs, such as the APIs for querying the background task list of an instance and querying a specified background task.
- **Tag management actions**, including actions supported by tag management APIs, such as the APIs for querying instance tags and project tags.

Lifecycle Management

Table 6-1 Lifecycle management

Permission	API	Action	IAM (Project)	Enterprise (Enterprise Project)
Creating an instance	POST /v2/*{project_id}*/kafka/instances	dms:instance:create	√	√

Permission	API	Action	IAM (Project)	Enterprise (Enterprise Project)
Querying all instances	GET /v2/*{project_id}*/instances	dms:instance:list	√	√
Querying an instance	GET /v2/*{project_id}*/instances/*{instance_id}*	dms:instance:get	√	√
Deleting an instance	DELETE /v2/*{project_id}*/instances/*{instance_id}*	dms:instance:delete	√	√
Modifying instance information	PUT /v2/*{project_id}*/instances/*{instance_id}*	dms:instance:modify	√	√
Batch restarting or deleting instances	POST /v2/*{project_id}*/instances/action	Restart: dms:instance:modifyStatus Delete: dms:instance:delete	√	√

Instance Management

Table 6-2 Instance management

Permission	API	Action	IAM (Project)	Enterprise (Enterprise Project)
Resetting a password	POST /v2/*{project_id}*/instances/*{instance_id}*/password	dms:instance:resetAuthInfo	√	√
Resetting the Kafka Manager password	PUT /v2/*{project_id}*/instances/*{instance_id}*/kafka-manager-password	dms:instance:resetAuthInfo	√	√

Permission	API	Action	IAM (Project)	Enterprise (Enterprise Project)
Restarting Kafka Manager	PUT /v2/*{project_id}*/instances/*{instance_id}*/restart-kafka-manager	dms:instance:modifyStatus	√	√
Configuring automatic topic creation	POST /v2/*{project_id}*/instances/*{instance_id}*/autotopic	dms:instance:modify	√	√
Modifying the private IP address for cross-VPC access	POST /v2/*{project_id}*/instances/*{instance_id}*/crossvpc/modify	dms:instance:modify	√	√
Resetting consumer group offset to the specified position	POST /v2/*{project_id}*/instances/*{instance_id}*/management/groups/*{group}*/reset-message-offset	dms:instance:modify	√	√

Specification Modification Management

Table 6-3 Specification modification management

Permission	API	Action	IAM Projects	Enterprise Projects
Modifying instance specifications	POST /v2/*{project_id}*/kafka/instances/*{instance_id}*/extend	dms:instance:scale	√	√

Topic Management

Table 6-4 Topic management

Permission	API	Action	IAM Projects	Enterprise Projects
Creating a topic in a Kafka instance	POST /v2/*{project_id}*/instances/*{instance_id}*/topics	dms:instance:modify	√	√
Querying a topic in a Kafka instance	GET /v2/*{project_id}*/instances/*{instance_id}*/topics	dms:instance:get	√	√
Modifying topics of a Kafka instance	PUT /v2/*{project_id}*/instances/*{instance_id}*/topics	dms:instance:modify	√	√
Deleting topics in a Kafka instance in batches	POST /v2/*{project_id}*/instances/*{instance_id}*/topics/delete	dms:instance:modify	√	√

User Management

Table 6-5 User management

Permission	API	Action	IAM Projects	Enterprise Projects
Querying the user list	GET /v2/*{project_id}*/instances/*{instance_id}*/users	dms:instance:get	√	√
Creating a user	POST /v2/*{project_id}*/instances/*{instance_id}*/users	dms:instance:modify	√	√
Deleting users in batches	PUT /v2/*{project_id}*/instances/*{instance_id}*/users	dms:instance:modify	√	√
Resetting a user password	PUT /v2/*{project_id}*/instances/*{instance_id}*/users/*{user_name}*	dms:instance:get	√	√

Permission	API	Action	IAM Projects	Enterprise Projects
Querying user permissions	GET /v1/*{project_id}*/instances/*{instance_id}*/topics/*{topic_name}*/accesspolicy	dms:instance:get	√	√
Granting user permissions	POST /v1/*{project_id}*/instances/*{instance_id}*/topics/accesspolicy	dms:instance:modify	√	√

Message Query

Table 6-6 Message query

Permission	API	Action	IAM Projects	Enterprise Projects
Querying messages	GET /v2/*{project_id}*/instances/*{instance_id}*/messages	dms:instance:get	√	√

Background Task Management

Table 6-7 Background task management

Permission	API	Action	IAM Projects	Enterprise Projects
Listing background tasks	GET /v2/*{project_id}*/instances/*{instance_id}*/tasks	dms:instance:getBackgroundTask	√	√
Querying a background task	GET /v2/*{project_id}*/instances/*{instance_id}*/tasks/*{task_id}*	dms:instance:getBackgroundTask	√	√
Deleting a background task	DELETE /v2/*{project_id}*/instances/*{instance_id}*/tasks/*{task_id}*	dms:instance:deleteBackgroundTask	√	√

Tag Management

Table 6-8 Tag management

Permission	API	Action	IAM Projects	Enterprise Projects
Batch adding or deleting tags	POST /v2/*{project_id}*/kafka/*{instance_id}*/tags/action	dms:instance:modify	√	√
Listing tags of an instance	GET /v2/*{project_id}*/kafka/*{instance_id}*/tags	dms:instance:get	√	√
Listing tags of a project	GET /v2/*{project_id}*/kafka/tags	dms:instance:get	√	√

7 Out-of-Date APIs

7.1 API V1

7.1.1 APIs for Managing Instances

7.1.1.1 Creating an Instance

NOTE

This API is out-of-date and may not be maintained in the future. Please use the API described in **Creating an Instance**.

Function

This API is used to create a Kafka instance.

URI

POST /v1.0/*{project_id}*/instances

Table 7-1 describes the parameter.

Table 7-1 Parameters

Parameter	Type	Mandatory	Description
project_id	String	Yes	Indicates the ID of a project.

Request

Request parameters

Table 7-2 describes the parameters.

Table 7-2 Request parameters

Parameter	Type	Mandatory	Description
name	String	Yes	Indicates the instance name. An instance name starts with a letter, consists of 4 to 64 characters, and can contain only letters, digits, underscores (_), and hyphens (-).
description	String	No	Indicates the description of an instance. It is a character string containing not more than 1024 characters. **NOTE** The backslash (\) and quotation mark (") are special characters for JSON packets. When using these characters in a parameter value, add the escape character (\) before these characters, for example, **** and **\"**.
engine	String	Yes	Indicates the message engine. Set the value to **kafka**.
engine_version	String	Yes	Indicates the version of the message engine.
specification	String	Yes	Indicates the baseline bandwidth of a Kafka instance, that is, the maximum amount of data transferred per unit time. Unit: MB Options: ● 100 MB ● 300 MB ● 600 MB ● 1200 MB
storage_space	Integer	Yes	Indicates the message storage space. Unit: GB. Value range: ● Kafka instance with **specification** being **100MB**: 600–90,000 GB ● Kafka instance with **specification** being **300MB**: 1200–90,000 GB ● Kafka instance with **specification** being **600MB**: 2400–90,000 GB ● Kafka instance with **specification** being **1200MB**: 4800–90,000 GB

Parameter	Type	Mandatory	Description
partition_num	Integer	Yes	Indicates the maximum number of partitions in a Kafka instance. Options: ● When **specification** is **100MB**: **300** ● When **specification** is **300MB**: **900** ● When **specification** is **600MB**: **1800** ● When **specification** is **1200MB**: **1800**
access_user	String	No	This parameter is mandatory when **ssl_enable** is set to **true**. This parameter is invalid when **ssl_enable** is set to **false**. Indicates a username. A username consists of 4 to 64 characters and can contain letters, digits, and hyphens (-).
password	String	No	This parameter is mandatory when **ssl_enable** is set to **true**. This parameter is invalid when **ssl_enable** is set to **false**. Indicates an instance password. The password must meet the following complexity requirements: ● Must be a string consisting of 8 to 32 characters. ● Must contain at least three of the following character types: – Lowercase letters – Uppercase letters – Digits – Special characters `~!@#$%^&*()-_=+|[{}];:',<.>/?
vpc_id	String	Yes	Indicates the VPC ID. You can call the API for querying VPCs to obtain the VPC ID. The VPC ID is in the response body. For details, see *Virtual Private Cloud API Reference*.
security_group_id	String	Yes	Indicates the security group which the instance belongs to. You can call the API for querying security groups to obtain the security group ID. The security group ID is in the response body. For details, see *Virtual Private Cloud API Reference*.

Parameter	Type	Mandatory	Description
subnet_id	String	Yes	Indicates the subnet ID. You can call the API for querying subnets to obtain the subnet ID. The subnet ID is in the response body. For details, see *Virtual Private Cloud API Reference*.
available_zones	Array	Yes	Indicates the ID of the AZ where brokers reside and which has available resources. The parameter value cannot be an empty array or an empty array. For details on how to obtain the value, see **Querying AZ Information**. Check whether the AZ has available resources. When creating a Kafka instance, you can select either 1 AZ or at least 3 AZ. When specifying AZs for brokers, use commas (,) to separate multiple AZs. Example parameter settings: • One AZ: "available_zones": ["a0865121f83b41cbafce65930a22a6e8"] • Three or more AZs: "available_zones": ["a0865121f83b41cbafce65930a22a6e8","a0865121f83b41cbafce65930a22a6e7","a0865121f83b41cbafce65930a22a6e6"]
product_id	String	Yes	Indicates the product ID. For details on how to obtain the ID, see **Querying Product Specifications**.
kafka_manager_user	String	Yes	Indicates the username for logging in to Kafka Manager. The username consists of 4 to 64 characters and can contain letters, digits, hyphens (-), and underscores (_).
kafka_manager_password	String	Yes	Indicates the password for logging in to Kafka Manager. The password must meet the following complexity requirements: • Must be a string consisting of 8 to 32 characters. • Must contain at least three of the following character types: – Lowercase letters – Uppercase letters – Digits – Special characters `~!@#$%^&*()-_=+|[{}];:',<.>/?

Parameter	Type	Mandatory	Description
maintain_begin	String	No	Indicates the time at which a maintenance time window starts. Format: HH:mm:ss • The start time and end time of the maintenance time window must indicate the time segment of a supported maintenance time window. For details about how to query the time segments of supported maintenance time windows, see **Querying Maintenance Time Windows**. • The start time must be set to 22:00:00, 02:00:00, 06:00:00, 10:00:00, 14:00:00, or 18:00:00. • Parameters **maintain_begin** and **maintain_end** must be set in pairs. If parameter **maintain_begin** is left blank, parameter **maintain_end** is also left blank. In this case, the system automatically sets the start time to 02:00:00.
maintain_end	String	No	Indicates the time at which a maintenance time window ends. Format: HH:mm:ss • The start time and end time of the maintenance time window must indicate the time segment of a supported maintenance time window. For details about how to query the time segments of supported maintenance time windows, see **Querying Maintenance Time Windows**. • The end time is four hours later than the start time. For example, if the start time is 22:00:00, the end time is 02:00:00. • Parameters **maintain_begin** and **maintain_end** must be set in pairs. If parameter **maintain_end** is left blank, parameter **maintain_start** is also blank. In this case, the system automatically sets the end time to 06:00:00.
ssl_enable	Boolean	No	Indicates whether to enable SSL-encrypted access. • **true**: enable • **false**: disable

Parameter	Type	Mandatory	Description
retention_policy	String	No	Indicates the action to be taken when the memory usage reaches the disk capacity threshold. Options: • **time_base**: Automatically delete the earliest messages. • **produce_reject**: Stop producing new messages.
enable_auto_topic	Boolean	No	Indicates whether to enable automatic topic creation. • **true**: enable • **false**: disable If automatic topic creation is enabled, a topic will be automatically created with 3 partitions and 3 replicas when a message is produced to or consumed from a topic that does not exist.
storage_spec_code	String	Yes	Indicates storage I/O specification. Options: • **dms.physical.storage.high** or **dms.physical.storage.ultra** when the parameter **specification** is **100MB** • **dms.physical.storage.high** or **dms.physical.storage.ultra** when the parameter **specification** is **300MB** • **dms.physical.storage.ultra** when the parameter **specification** is **600MB** • **dms.physical.storage.ultra** when the parameter **specification** is **1200MB**
enterprise_project_id	String	No	Indicates the enterprise project ID.
tags	Array<Object>	No	Indicates the list of tags.

Table 7-3 tags

Parameter	Type	Mandatory	Description
key	String	No	Indicates the tag key. A tag key can contain a maximum of 36 Unicode characters. The key cannot be left blank or be an empty string. It cannot contain nonprintable ASCII (0–31) characters and the following special characters: =*<>\,|/
value	String	No	Indicates the value. A tag value can contain a maximum of 43 Unicode characters. The value cannot be left blank or be an empty string. It cannot contain nonprintable ASCII (0–31) characters and the following special characters: =*<>\,|/

Response

Response parameters

Table 7-4 describes the parameters.

Table 7-4 Response parameters

Parameter	Type	Description
instance_id	String	Indicates the instance ID.

Example response

```
{
   "instance_id": "8959ab1c-7n1a-yyb1-a05t-93dfc361b32d"
}
```

Status Code

Table 7-5 describes the status code of successful operations. For details about other status codes, see **Status Code**.

Table 7-5 Status code

Status Code	Description
200	The instance is created successfully.

7.1.1.2 Querying an Instance

NOTE

This API is out-of-date and may not be maintained in the future. Please use the API described in **Querying an Instance**.

Function

This API is used to query the details about an instance.

URI

GET /v1.0/*{project_id}*/instances/*{instance_id}*

Table 7-6 describes the parameters.

Table 7-6 Parameters

Parameter	Type	Mandatory	Description
project_id	String	Yes	Indicates the ID of a project.
instance_id	String	Yes	Indicates the instance ID.

Request

Request parameters

None.

Example request

GET https://*{dms_endpoint}*/v1.0/*{project_id}*/instances/*{instance_id}*

Response

Response parameters

Table 7-7 describes the parameters.

Table 7-7 Response parameters

Parameter	Type	Description
name	String	Indicates the instance name.
engine	String	Indicates the message engine.
engine_version	String	Indicates the version of the message engine.
specification	String	Indicates the instance specification.

Parameter	Type	Description
storage_space	Integer	Indicates the message storage space. Unit: GB
partition_num	String	Indicates the total number of partitions in a Kafka instance.
used_storage_space	Integer	Indicates the used message storage space. Unit: GB
connect_address	String	Indicates the IP address of an instance.
port	Integer	Indicates the port number of an instance.
status	String	Indicates the status of an instance. For details, see **Instance Status**.
instance_id	String	Indicates the instance ID.
resource_spec_code	String	Indicates the resource specifications identifier. • **dms.instance.kafka.cluster.c3.mini**: Kafka instance, 100 MB/s reference bandwidth • **dms.instance.kafka.cluster.c3.small.2**: Kafka instance, 300 MB/s reference bandwidth • **dms.instance.kafka.cluster.c3.middle.2**: Kafka instance, 600 MB/s reference bandwidth • **dms.instance.kafka.cluster.c3.high.2**: Kafka instance, 1200 MB/s reference bandwidth
type	String	Indicates the instance type. Value: **cluster**
charging_mode	Integer	Indicates the billing mode.
vpc_id	String	Indicates the ID of a VPC.
vpc_name	String	Indicates the name of a VPC.
created_at	String	Indicates the time when an instance is created. The time is in the format of timestamp, that is, the offset milliseconds from 1970-01-01 00:00:00 UTC to the specified time.
product_id	String	Indicates the product ID.
security_group_id	String	Indicates the security group ID.
security_group_name	String	Indicates the security group name.
subnet_id	String	Indicates the subnet ID.
subnet_name	String	Indicates the subnet name.

Parameter	Type	Description
subnet_cidr	String	Indicates the subnet CIDR block.
available_zones	Array	Indicates the ID of the AZ to which the instance node belongs. The AZ ID is returned.
user_id	String	Indicates the user ID.
user_name	String	Indicates the username.
access_user	String	Indicates the username of an instance.
maintain_begin	String	Indicates the time at which a maintenance time window starts. Format: HH:mm:ss
maintain_end	String	Indicates the time at which a maintenance time window ends. Format: HH:mm:ss
management_connect_address	String	Indicates the connection address of the Kafka Manager of a Kafka instance.
ssl_enable	Boolean	Indicates whether to enable security authentication. • **true**: enable • **false**: disable
enterprise_project_id	String	Indicates the enterprise project ID.
is_logical_volume	Boolean	Distinguishes old instances from new instances during instance capacity expansion. • **true**: New instance, which allows dynamic disk capacity expansion without restarting the instance. • **false**: Old instance.
extend_times	Integer	Indicates the number of disk expansion times. If it exceeds 20, the disk cannot be expanded.
enable_auto_topic	Boolean	Indicates whether automatic topic creation is enabled. • **true**: enabled • **false**: disabled
total_storage_space	Integer	Indicates the message storage space. Unit: GB
storage_resource_id	String	Indicates the storage resource ID.

Parameter	Type	Description
storage_spec_code	String	Indicates the I/O specification.
service_type	String	Indicates the service type.
storage_type	String	Indicates the storage type.
retention_policy	String	Indicates the message retention policy.
kafka_manager_user	String	Indicates the username for logging in to Kafka Manager.
enable_log_collection	Boolean	Indicates whether log collection is enabled.
cross_vpc_info	String	Indicates cross-VPC access information.
ipv6_enable	Boolean	Indicates whether IPv6 is enabled.
ipv6_connect_addresses	Array of strings	Indicates the IPv6 connection address.
rest_enable	Boolean	Indicates whether the Kafka REST function is enabled.
rest_connect_address	String	Indicates the Kafka REST connection address.
message_query_inst_enable	Boolean	Indicates whether message query is enabled.
vpc_client_plain	Boolean	Indicates whether intra-VPC plaintext access is enabled.
support_features	String	Indicates the list of features supported by the Kafka instance.
trace_enable	Boolean	Indicates whether message tracing is enabled.
pod_connect_address	String	Indicates the connection address on the tenant side.
disk_encrypted	Boolean	Indicates whether disk encryption is enabled. • **true**: enabled • **false**: disabled
kafka_private_connect_address	String	Indicates the private connection address of a Kafka instance.
ces_version	String	Indicates the Cloud Eye version.
tags	Array<Object>	Indicates the list of tags.

Table 7-8 tags

Parameter	Type	Description
key	String	Indicates the tag key.
value	String	Indicates the tag value.

Example response

Status Code

Table 7-9 describes the status code of successful operations. For details about other status codes, see **Status Code**.

Table 7-9 Status code

Status Code	Description
200	Specified instance queried successfully.

7.1.1.3 Modifying an Instance

NOTE

This API is out-of-date and may not be maintained in the future. Please use the API described in **Modifying Instance Information**.

Function

This API is used to modify the instance information, including the instance name, description, maintenance window, and security group.

URI

PUT /v1.0/{project_id}/instances/{instance_id}

Table 7-10 Parameters

Parameter	Type	Mandatory	Description
project_id	String	Yes	Indicates the ID of a project.
instance_id	String	Yes	Indicates the instance ID.

Request

Request parameters

Table 7-11 describes the parameters.

Table 7-11 Request parameters

Parameter	Type	Mandatory	Description
name	String	No	Indicates the instance name. An instance name consists of 4 to 64 characters including letters, digits, and hyphens (-) and must start with a letter.
description	String	No	Indicates the description of an instance. It is a character string containing not more than 1024 characters. **NOTE** The backslash (\) and quotation mark (") are special characters for JSON packets. When using these characters in a parameter value, add the escape character (\) before these characters, for example, **** and **\"**.
maintain_begin	String	No	Indicates the time at which a maintenance time window starts. Format: HH:mm:ss • The start time and end time of the maintenance time window must indicate the time segment of a supported maintenance time window. For details about how to query the time segments of supported maintenance time windows, see **Querying Maintenance Time Windows**. • The start time must be set to 22:00:00, 02:00:00, 06:00:00, 10:00:00, 14:00:00, or 18:00:00. • Parameters **maintain_begin** and **maintain_end** must be set in pairs. If parameter **maintain_begin** is left blank, parameter **maintain_end** is also left blank. In this case, the system automatically sets the start time to 02:00:00.

Parameter	Type	Mandatory	Description
maintain_end	String	No	Indicates the time at which a maintenance time window ends. Format: HH:mm:ss • The start time and end time of the maintenance time window must indicate the time segment of a supported maintenance time window. For details about how to query the time segments of supported maintenance time windows, see **Querying Maintenance Time Windows**. • The end time is four hours later than the start time. For example, if the start time is 22:00:00, the end time is 02:00:00. • Parameters **maintain_begin** and **maintain_end** must be set in pairs. If parameter **maintain_end** is left blank, parameter **maintain_start** is also left blank. In this case, the system automatically sets the end time to 06:00:00.
security_group_id	String	No	Indicates the security group ID.
retention_policy	String	No	Indicates the capacity threshold policy. Options: • **produce_reject**: New messages cannot be created. • **time_base**: The earliest messages are deleted.
enterprise_project_id	String	No	Indicates the enterprise project ID.

Example request

Example 1:

```
PUT https://{dms_endpoint}/v1.0/{project_id}/instances/{instance_id}
{
   "name": "dms002",
   "description": "instance description"
}
```

Example 2:


```
PUT https://{dms_endpoint}/v1.0/{project_id}/instances/{instance_id}
{
    "name": "dms002",
    "description": "instance description",
    "maintain_begin":"02:00:00",
    "maintain_end":"06:00:00"
}
```

Response

Response parameters

None.

Example response

None.

Status Code

Table 7-12 describes the status code of successful operations. For details about other status codes, see Status Code.

Table 7-12 Status code

Status Code	Description
204	The instance is modified successfully.

7.1.1.4 Deleting an Instance

NOTE

This API is out-of-date and may not be maintained in the future. Please use the API described in Deleting an Instance.

Function

This API is used to delete an instance to release all the resources occupied by it.

URI

DELETE /v1.0/{project_id}/instances/{instance_id}

Table 7-13 describes the parameters.

Table 7-13 Parameters

Parameter	Type	Mandatory	Description
project_id	String	Yes	Indicates the ID of a project.

Parameter	Type	Mandatory	Description
instance_id	String	Yes	Indicates the instance ID.

Request

Request parameters

None.

Example request

```
DELETE https://{dms_endpoint}/v1.0/{project_id}/instances/{instance_id}
```

Response

Response parameters

None.

Example response

None.

Status Code

Table 7-14 describes the status code of successful operations. For details about other status codes, see Status Code.

Table 7-14 Status code

Status Code	Description
204	The instance is deleted successfully.

7.1.1.5 Restarting or Deleting Instances in Batches

NOTE

This API is out-of-date and may not be maintained in the future. Please use the API described in Batch Restarting or Deleting Instances.

Function

This API is used to restart or delete instances in batches.

When an instance is being restarted, message retrieval and creation requests of the client will be rejected.

Deleting an instance will delete the data in the instance without any backup. Exercise caution when performing this operation.

URI

POST /v1.0/{project_id}/instances/action

Table 7-15 describes the parameters.

Table 7-15 Parameters

Parameter	Type	Mandatory	Description
project_id	String	Yes	Indicates the ID of a project.

Request

Request parameters

Table 7-16 describes the parameters.

Table 7-16 Request parameters

Parameter	Type	Mandatory	Description
action	String	Yes	Indicates the operation to be performed on instances. The value of this parameter can be **restart** or **delete**.
instances	Array	No	Indicates the list of instance IDs.
allFailure	String	No	When set to **kafka**, indicates all Kafka instances that fail to be created are to be deleted.

Example request

Restarting instances in batches:

```
POST https://{dms_endpoint}/v1.0/{project_id}/instances/action
{
   "action" : "restart",
   "instances" : ["54602a9d-5e22-4239-9123-77e350df4a34", "7166cdea-dbad-4d79-9610-7163e6f8b640"]
}
```

Deleting instances in batches:

```
POST https://{dms_endpoint}/v1.0/{project_id}/instances/action
{
   "action" : "delete",
   "instances" : ["54602a9d-5e22-4239-9123-77e350df4a34", "7166cdea-dbad-4d79-9610-7163e6f8b640"]
}
```

Deleting all instances that fail to be created:

```
POST https://{dms_endpoint}/v1.0/{project_id}/instances/action
{
```



```
   "action" : "delete",
   "allFailure" : "kafka"
}
```

Response

Response parameters

When **action** is set to **delete**, **allFailure** is set to **kafka**, and an empty response is returned, the instances are deleted successfully. **Table 7-17** describes the parameters.

Table 7-17 Response parameters

Parameter	Type	Description
results	Array	Indicates the result of instance modification.

Table 7-18 results parameter description

Parameter	Type	Description
instance	String	Indicates the instance ID.
result	String	Indicates an operation result, which can be **success** or **failed**

Example response

```
{
   "results": [
      {
         "result": "success",
         "instance": "afc90a2a-a02c-4cba-94d5-58dfa9ad1e0d"
      },
      {
         "result": "success",
         "instance": "67fc5f8d-3986-4f02-bb75-4075a23112de"
      }
   ]
}
```

Status Code

Table 7-19 describes the status code of successful operations. For details about other status codes, see **Status Code**.

Table 7-19 Status code

Status Code	Description
200	The instances are restarted or deleted successfully.
204	Successfully deleting an instance failed to be created.

7.1.1.6 Querying All Instances

NOTE

This API is out-of-date and may not be maintained in the future. Please use the API described in **Listing All Instances**.

Function

This API is used to query the instances of a tenant by set conditions.

URI

GET /v1.0/*{project_id}*/instances?engine=*{engine}*&name=*{name}*&status=*{status}*&id=*{id}*&includeFailure=*{includeFailure}*&exactMatchName=*{exactMatchName}*&enterprise_project_id=*{enterprise_project_id}*

Table 7-20 describes the parameters.

Table 7-20 Parameters

Parameter	Type	Mandatory	Description
project_id	String	Yes	Indicates the ID of a project.
engine	String	No	Indicates the message engine. Value: **kafka**
name	String	No	Indicates the instance name.
id	String	No	Indicates the instance ID.
status	String	No	Indicates the instance status. For details, see **Instance Status**.
includeFailure	String	No	Indicates whether to return the number of instances that fail to be created. If the value is **true**, the number of instances that failed to be created is returned. If the value is not **true**, the number is not returned.

Parameter	Type	Mandatory	Description
exactMatchName	String	No	Indicates whether to search for the instance that precisely matches a specified instance name. The default value is **false**, indicating that a fuzzy search is performed based on a specified instance name. If the value is **true**, the instance that precisely matches a specified instance name is queried.
enterprise_project_id	String	No	Indicates the enterprise project ID.

Request

Request parameters

None.

Example request

```
GET https://{dms_endpoint}/v1.0/{project_id}/instances?
start=1&limit=10&name=&status=&id=&includeFailure=true&exactMatchName=false
```

Response

Response parameters

Table 7-21 describes the parameters.

Table 7-21 Response parameters

Parameter	Type	Description
instances	Array	Indicates instance details.
instance_num	Integer	Indicates the number of instances.

Table 7-22 instance parameter description

Parameter	Type	Description
name	String	Indicates the instance name.
engine	String	Indicates the message engine.
engine_version	String	Indicates the engine version.

Parameter	Type	Description
specification	String	Indicates the specifications of an instance.
storage_space	Integer	Indicates the message storage space. Unit: GB
partition_num	String	Indicates the maximum number of topics in a Kafka instance.
used_storage_space	Integer	Indicates the used message storage space. Unit: GB
connect_address	String	Indicates the IP address of an instance.
port	Integer	Indicates the port number of an instance.
status	String	Indicates the status of an instance. For details, see **Instance Status**.
instance_id	String	Indicates the instance ID.
resource_spec_code	String	Indicates the resource specifications identifier. • **dms.instance.kafka.cluster.c3.mini**: Kafka instance, 100 MB/s reference bandwidth • **dms.instance.kafka.cluster.c3.small.2**: Kafka instance, 300 MB/s reference bandwidth • **dms.instance.kafka.cluster.c3.middle.2**: Kafka instance, 600 MB reference bandwidth • **dms.instance.kafka.cluster.c3.high.2**: Kafka instance, 1200 MB reference bandwidth
charging_mode	Integer	Billing mode.
vpc_id	String	Indicates the ID of a VPC.
vpc_name	String	Indicates the name of a VPC.
created_at	String	Indicates the time when an instance is created. The time is in the format of timestamp, that is, the offset milliseconds from 1970-01-01 00:00:00 UTC to the specified time.
user_id	String	Indicates the user ID.
user_name	String	Indicates the username.
access_user	String	Indicates the username of an instance.
maintain_begin	String	Indicates the time at which a maintenance time window starts. Format: HH:mm:ss

Parameter	Type	Description
maintain_end	String	Time at which the maintenance time window ends. Format: HH:mm:ss
management_connect_address	String	Indicates the connection address of the Kafka Manager of a Kafka instance.
ssl_enable	Boolean	Indicates whether to enable security authentication. • **true**: enable • **false**: disable
enterprise_project_id	String	Indicates the enterprise project ID.
is_logical_volume	Boolean	Distinguishes old instances from new instances during instance capacity expansion. • **true**: New instance, which allows dynamic disk capacity expansion without restarting the instance. • **false**: Old instance.
extend_times	Integer	Indicates the number of disk expansion times. If it exceeds 20, the disk cannot be expanded.
enable_auto_topic	Boolean	Indicates whether automatic topic creation is enabled. • **true**: enabled • **false**: disabled
type	String	Indicates the instance type. Value: **cluster**.
product_id	String	Indicates the product ID.
security_group_id	String	Indicates the security group ID.
security_group_name	String	Indicates the security group name.
subnet_id	String	Indicates the subnet ID.
available_zones	Array	Indicates the AZ to which the instance node belongs. The AZ ID is returned.
total_storage_space	Integer	Indicates the message storage space. Unit: GB
storage_resource_id	String	Indicates the storage resource ID.
storage_spec_code	String	Indicates the I/O specification.

Parameter	Type	Description
service_type	String	Indicates the service type.
storage_type	String	Indicates the storage type.
retention_policy	String	Indicates the message retention policy.
kafka_manager_user	String	Indicates the username for logging in to Kafka Manager.
enable_log_collection	Boolean	Indicates whether log collection is enabled.
cross_vpc_info	String	Indicates cross-VPC access information.
ipv6_enable	Boolean	Indicates whether IPv6 is enabled.
ipv6_connect_addresses	Array of strings	Indicates the IPv6 connection address.
rest_enable	Boolean	Indicates whether the Kafka REST function is enabled.
rest_connect_address	String	Indicates the Kafka REST address.
message_query_inst_enable	Boolean	Indicates whether message query is enabled.
vpc_client_plain	Boolean	Indicates whether intra-VPC plaintext access is enabled.
support_features	String	Indicates the list of features supported by the Kafka instance.
trace_enable	Boolean	Indicates whether message tracing is enabled.
pod_connect_address	String	Indicates the connection address on the tenant side.
disk_encrypted	Boolean	Indicates whether disk encryption is enabled.
kafka_private_connect_address	String	Indicates the private connection address of a Kafka instance.
ces_version	String	Indicates the Cloud Eye version.
tags	Array<Object>	Indicates the list of tags.

Table 7-23 tags

Parameter	Type	Description
key	String	Indicates the tag key.
value	String	Indicates the tag value.

Example response

Status Code

Table 7-24 describes the status code of successful operations. For details about other status codes, see **Status Code**.

Table 7-24 Status code

Status Code	Description
200	All instances are queried successfully.

7.1.1.7 Creating a Topic in a Kafka Instance

NOTE

This API is out-of-date and may not be maintained in the future. Please use the API described in **Creating a Topic for a Kafka Instance**.

Function

This API is used to create a topic in a Kafka instance.

URI

POST /v1.0/{project_id}/instances/{instance_id}/topics

Table 7-25 describes the parameters.

Table 7-25 Parameters

Parameter	Type	Mandatory	Description
project_id	String	Yes	Indicates the ID of a project.
instance_id	String	Yes	Indicates the instance ID.

Request

Request parameters

Table 7-26 describes the parameter.

Table 7-26 Request parameters

Parameter	Type	Mandatory	Description
id	String	Yes	Indicates the name of a topic. A topic name consists of 4 to 64 characters, starts with a letter, and contains only letters, hyphens (-), underscores (_), and digits.
partition	Integer	No	Indicates the number of topic partitions, which is used to set the number of concurrently consumed messages. Value range: 1–100. Default value: **3**.
replication	Integer	No	Indicates the number of replicas, which is configured to ensure data reliability. Value range: 1–3. Default value: **3**.
sync_replication	Boolean	No	Indicates whether to enable synchronous replication. After this function is enabled, the **acks** parameter on the producer client must be set to **–1**. Otherwise, this parameter does not take effect. By default, synchronous replication is disabled.
retention_time	Integer	No	Indicates the retention period of a message. Its default value is **72**. Value range: 1–720. Unit: hour.
sync_message_flush	Boolean	No	Indicates whether to enable synchronous flushing. Default value: **false**. Synchronous flushing compromises performance.

Example request

```
POST https://{dms_endpoint}/v1.0/{project_id}/instances/{instance_id}/topics
{
  "id" : "haha",
  "partition" : 3,
  "replication" : 3,
  "sync_replication " : true,
  "retention_time" : 10,
  "sync_message_flush" : true
}
```


Response

Response parameters

Table 7-27 describes the parameter.

Table 7-27 Response parameters

Parameter	Type	Description
id	String	Indicates the name of a topic.

Example response

```
{
"id": "haha"
}
```

Status Code

Table 7-28 describes the status code of successful operations. For details about other status codes, see **Status Code**.

Table 7-28 Status code

Status Code	Description
200	The topic is created successfully.

7.1.1.8 Querying a Topic in a Kafka Instance

NOTE

This API is out-of-date and may not be maintained in the future. Please use the API described in **Listing Topics of a Kafka Instance**.

Function

This API is used to query details about a topic in a Kafka instance.

URI

GET /v1.0/{project_id}/instances/{instance_id}/topics

Table 7-29 describes the parameter.

Table 7-29 Parameters

Parameter	Type	Mandatory	Description
project_id	String	Yes	Indicates the ID of a project.
instance_id	String	Yes	Indicates the instance ID.

Request

Request parameters

None.

Example request

```
GET https://{dms_endpoint}/v1.0/{project_id}/instances/{instance_id}/topics
```

Response

Response parameters

Table 7-30 describes the response parameter.

Table 7-30 Response parameter

Parameter	Type	Description
total	Integer	Indicates the total number of topics.
size	Integer	Indicates the maximum number of records to be displayed on a page.
remain_partitions	Integer	Indicates the number of remaining partitions.
max_partitions	Integer	Indicates the total number of partitions.
topics	Array	Indicates the list of topics.

Table 7-31 Parameter description

Parameter	Type	Description
policiesOnly	Boolean	Whether this policy is the default policy.
id	String	Indicates the topic name.
replication	Integer	Indicates the number of replicas, which is configured to ensure data reliability.

Parameter	Type	Description
partition	Integer	Indicates the number of topic partitions, which is used to set the number of concurrently consumed messages.
retention_time	Integer	Indicates the retention period of a message.
sync_replication	Boolean	Indicates whether to enable synchronous replication. After this function is enabled, the **acks** parameter on the producer client must be set to **–1**. Otherwise, this parameter does not take effect. By default, synchronous replication is disabled.
sync_message_flush	Boolean	Indicates whether to enable synchronous flushing. Synchronous flushing compromises performance.
external_configs	Object	Indicates the extended configuration.
topic_type	Integer	Indicates the topic type.

Example response

```
{
 "count": 1,
 "topics": [
  {
   "id": "topic-test",
   "replication": 3,
   "partition": 4,
   "retention_time": 72,
   "sync_replication": "false",
   "sync_message_flush": "false"
  }
 ]
}
```

Status Code

Table 7-32 describes the status code of successful operations. For details about other status codes, see Status Code.

Table 7-32 Status code

Status Code	Description
200	The information is queried successfully.

7.1.1.9 Deleting Topics in a Kafka Instance in Batches

NOTE

This API is out-of-date and may not be maintained in the future. Please use the API described in **Batch Deleting Topics of a Kafka Instance**.

Function

This API is used to delete topics in a Kafka instance in batches.

URI

POST /v1.0/{project_id}/instances/{instance_id}/topics/delete

Table 7-33 describes the parameter.

Table 7-33 Parameters

Parameter	Type	Mandatory	Description
project_id	String	Yes	Indicates the ID of a project.
instance_id	String	Yes	Indicates the instance ID.

Request

Request parameters

Table 7-34 describes the parameter.

Table 7-34 Request parameter

Parameter	Type	Mandatory	Description
topics	Array	Yes	Indicates the list of topics to be deleted.

Example request

```
POST https://{dms_endpoint}/v1.0/{project_id}/instances/{instance_id}/topics/delete
{
  "topics" : ["hah", "aabb"]
 }
```

Response

Response parameters

Table 7-35 describes the parameter.

Table 7-35 Response parameters

Parameter	Type	Description
topics	Array	Indicates the list of topics.

Table 7-36 topics parameter description

Parameter	Type	Description
id	String	Indicates the topic name.
success	Boolean	Indicates whether the topics are deleted.

Example response

```
{
  "topics" : [{
      "id" : "haha",
      "success" : true
    }, {
      "id" : "aabb",
      "success" : true
    }
  ]
}
```

Status Code

Table 7-37 describes the status code of successful operations. For details about other status codes, see Status Code.

Table 7-37 Status code

Status Code	Description
200	The topics are successfully deleted.

7.1.2 Other APIs

7.1.2.1 Querying AZ Information

NOTE

This API is out-of-date and may not be maintained in the future. Please use the API described in Listing AZ Information.

Function

This API is used to query the AZ ID.

URI

GET /v1.0/availableZones

Request

Request parameters

None.

Example request

```
GET https://{dms_endpoint}/v1.0/availableZones
```

Response

Response parameters

Table 7-38 and Table 7-39 describe the parameters.

Table 7-38 Response parameters

Parameter	Type	Description
region_id	String	Indicates the region ID.
available_zones	Array	Indicates details of AZs. For details, see Table 7-39.

Table 7-39 available_zones parameter description

Parameter	Type	Description
soldOut	Boolean	Indicates whether resources are sold out.
id	String	Indicates the ID of an AZ.
code	String	Indicates the code of an AZ.
name	String	Indicates the name of an AZ.
port	String	Indicates the port number of an AZ.
resource_availability	String	Indicates whether an AZ has available resources. • **true**: The AZ has available resources. • **false**: Resources of the AZ have been sold out.

Example response

```
{
   regionId: "XXXX",
   available_zones:[
      {
```



```
            "id":"1d7b939b382c4c3bb3481a8ca10da768",
            "name":"az10.dc1",
            "code":"az10.dc1",
            "port":"8002",
            "resource_availability": "true"
        },
        {
            "id":"1d7b939b382c4c3bb3481a8ca10da769",
            "name":"az10.dc2",
            "code":"az10.dc2",
            "port":"8002",
            "resource_availability": "true"
        }
    ]
}
```


Status Code

Table 7-40 describes the status code of successful operations. For details about other status codes, see **Status Code**.

Table 7-40 Status code

Status Code	Description
200	The AZ information is successfully queried.

7.1.2.2 Querying Product Specifications

NOTE

This API is out-of-date and may not be maintained in the future. Please use the API described in **Querying Product Specifications**.

Function

This API is used to query the product specifications to configure the product ID.

URI

GET /v1.0/products?engine=*{engine}*

Table 7-41 describes the parameter.

Table 7-41 Parameters

Parameter	Type	Mandatory	Description
engine	String	Yes	Indicates the message engine.

Request

Request parameters

None.

Example request

```
GET https://{dms_endpoint}/v1.0/products?engine={engine}
```

Response

Response parameters

Table 7-42 describes the response parameters.

Table 7-42 Parameters

Parameter	Type	Description
name	String	Indicates the message engine, which is **kafka**.
version	String	Version of the message engine.
values	Array	Indicates product specifications. For details, see Table 7-43.

Table 7-43 values parameter description

Parameter	Type	Description
detail	Array	Indicates the details of specifications. For details, see Table 7-44.
name	String	Indicates the instance type.
unavailable_zones	Array	Indicates AZs where resources are sold out.
available_zones	Array	Indicates AZs where there are available resources.

Table 7-44 detail parameter description

Parameter	Type	Description
tps	String	Indicates the maximum number of messages per unit time.
storage	String	Indicates the message storage space.
partition_num	String	Indicates the maximum number of topics in a Kafka instance.
product_id	String	Indicates the product ID.
spec_code	String	Indicates the specification ID.

Parameter	Type	Description
io	Array	Indicates the I/O information. For details, see Table 7-45.
bandwidth	String	Indicates the bandwidth of a Kafka instance.
available_zones	Array	Indicates AZs where there are available resources.
ecs_flavor_id	String	Indicates the flavors of the corresponding ECS.
arch_type	String	Indicates the instance architecture type.

Table 7-45 io parameter description

Parameter	Type	Description
io_type	String	Indicates the I/O type.
storage_spec_code	String	Indicates the I/O specification.
available_zones	Array	Indicates AZs where there are available I/O resources.
unavailable_zones	Array of strings	Indicates AZs where I/O resources are sold out.
volume_type	String	Indicates the disk type.

Example response


```
{
   "Hourly": [{
      "name": "kafka",
      "version": "2.3.0",
      "values": [{
         "detail": [{
            "tps": "50000",
            "storage": "600",
            "partition_num": "300",
            "product_id": "00300-30308-0--0",
            "spec_code": "dms.instance.kafka.cluster.c3.mini",
            "io": [{
               "io_type": "high",
               "storage_spec_code": "dms.physical.storage.high",
               "available_zones": ["XXX",
               "XXX"],
               "volume_type": "SAS"
            },
            {
               "io_type": "ultra",
               "storage_spec_code": "dms.physical.storage.ultra",
               "available_zones": ["XXX",
               "XXX"],
               "volume_type": "SSD"
            }],
            "bandwidth": "100MB",
```



```
        "unavailable_zones": ["XXX"],
        "available_zones": ["XXX"],
        "ecs_flavor_id": "c4.large.2",
        "arch_type": "X86"
    },
    {
        "tps": "100000",
        "storage": "1200",
        "partition_num": "900",
        "product_id": "00300-30310-0--0",
        "spec_code": "dms.instance.kafka.cluster.c3.small.2",
        "io": [{
            "io_type": "high",
            "storage_spec_code": "dms.physical.storage.high",
            "available_zones": ["XXX",
            "XXX"],
            "volume_type": "SAS"
        },
        {
            "io_type": "ultra",
            "storage_spec_code": "dms.physical.storage.ultra",
            "available_zones": ["XXX",
            "XXX"],
            "volume_type": "SSD"
        }],
        "bandwidth": "300MB",
        "unavailable_zones": ["XXX"],
        "available_zones": ["XXX"],
        "ecs_flavor_id": "c4.xlarge.2",
        "arch_type": "X86"
    },
    {
        "tps": "200000",
        "storage": "2400",
        "partition_num": "1800",
        "product_id": "00300-30312-0--0",
        "spec_code": "dms.instance.kafka.cluster.c3.middle.2",
        "io": [{
            "io_type": "ultra",
            "storage_spec_code": "dms.physical.storage.ultra",
            "available_zones": ["XXX",
            "XXX"],
            "volume_type": "SSD"
        }],
        "bandwidth": "600MB",
        "unavailable_zones": ["XXX"],
        "available_zones": ["XXX"],
        "ecs_flavor_id": "c4.2xlarge.2",
        "arch_type": "X86"
    },
    {
        "tps": "300000",
        "storage": "4800",
        "partition_num": "1800",
        "product_id": "00300-30314-0--0",
        "spec_code": "dms.instance.kafka.cluster.c3.high.2",
        "io": [{
            "io_type": "ultra",
            "storage_spec_code": "dms.physical.storage.ultra",
            "available_zones": ["XXX",
            "XXX"],
            "volume_type": "SSD"
        }],
        "bandwidth": "1200MB",
        "unavailable_zones": ["XXX"],
        "available_zones": ["XXX"],
        "ecs_flavor_id": "c4.2xlarge.2",
        "arch_type": "X86"
    }],
```



```
            "name": "cluster",
            "unavailable_zones": ["XXX"],
            "available_zones": ["XXX"]
        }]
    }]
}
```

Status Code

Table 7-46 describes the status code of successful operations. For details about other status codes, see **Status Code**.

Table 7-46 Status code

Status Code	Description
200	Product specifications queried successfully.

7.1.2.3 Querying Maintenance Time Windows

NOTE

This API is out-of-date and may not be maintained in the future. Please use the API described in **Listing Maintenance Time Windows**.

Function

This API is used to query the start and end time of the maintenance window.

URI

GET /v1.0/instances/maintain-windows

Request

Request parameters

None.

Example request

```
GET https://{dms_endpoint}/v1.0/instances/maintain-windows
```

Response

Response parameters

Table 7-47 and **Table 7-48** describe the response parameters.

Table 7-47 Response parameters

Parameter	Type	Description
maintain_windows	Array	Indicates a list of supported maintenance time windows.

Table 7-48 maintain_windows parameter description

Parameter	Type	Description
seq	Integer	Indicates the sequential number of a maintenance time window.
begin	String	Indicates the time at which a maintenance time window starts.
end	String	Indicates the time at which a maintenance time window ends.
default	Boolean	Indicates whether a maintenance time window is set to the default time segment.

Example response

```
{
   "maintain_windows": [{
      "default": false,
      "seq": 1,
      "begin": "22:00:00",
      "end": "02:00:00"
   },
   {
      "default": true,
      "seq": 2,
      "begin": "02:00:00",
      "end": "06:00:00"
   },
   {
      "default": false,
      "seq": 3,
      "begin": "06:00:00",
      "end": "10:00:00"
   },
   {
      "default": false,
      "seq": 4,
      "begin": "10:00:00",
      "end": "14:00:00"
   },
   {
      "default": false,
      "seq": 5,
      "begin": "14:00:00",
      "end": "18:00:00"
   },
   {
      "default": false,
```



```
        "seq": 6,
        "begin": "18:00:00",
        "end": "22:00:00"
    }]
}
```

Status Code

Table 7-49 describes the status code of successful operations. For details about other status codes, see **Status Code**.

Table 7-49 Status code

Status Code	Description
200	The maintenance time windows are queried successfully.

7.2 API V2

7.2.1 Managing Lifecycle

7.2.1.1 Creating an Instance

Function

This API is used to create an instance.

NOTE

This API is out-of-date and may not be maintained in the future. Please use the API described in **Creating an Instance**.

URI

POST /v2/*{engine}*/*{project_id}*/instances

Table 7-50 URI parameters

Parameter	Mandatory	Type	Description
engine	Yes	String	Message engine.
project_id	Yes	String	Project ID. For details, see **Obtaining a Project ID**.

Request

Table 7-51 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Instance name. An instance name starts with a letter, consists of 4 to 64 characters, and can contain only letters, digits, underscores (_), and hyphens (-).
description	No	String	Description of an instance. 0 to 1024 characters. **NOTE** The backslash (\) and quotation mark (") are special characters for JSON messages. When using these characters in a parameter value, add the escape character (\) before the characters, for example, **** and **\"**.
engine	Yes	String	Message engine. Set the value to **kafka**.
engine_version	Yes	String	Version of the engine. Values: • 1.1.0 • 2.3.0 • 2.7 • 3.x
broker_num	Yes	Integer	Number of brokers.
storage_space	Yes	Integer	Message storage space, in GB. • 300–300,000 GB for c6.2u4g.cluster Kafka instances • 300–600,000 GB for c6.4u8g.cluster Kafka instances • 300–1,500,000 GB for c6.8u16g.cluster Kafka instances • 300–1,500,000 GB for c6.12u24g.cluster Kafka instances • 300–1,500,000 GB for c6.16u32g.cluster Kafka instances

Parameter	Mandatory	Type	Description
access_user	No	String	This parameter is mandatory when **ssl_enable** is set to **true**. This parameter is invalid when **ssl_enable** is set to **false**. A username must start with a letter and only letters, digits, hyphens (-), and underscores (_) are allowed. It can contain 4 to 64 characters.
password	No	String	This parameter is mandatory when **ssl_enable** is set to **true**. This parameter is invalid when **ssl_enable** is set to **false**. Instance password. The password must meet the following complexity requirements: • Can contain 8 to 32 characters. • Must contain at least three of the following character types: – Lowercase letters – Uppercase letters – Digits – Special characters include `~!@#$%^&*()-_=+|[{}]:',"<.>/? and spaces, and cannot start with a hyphen (-).
vpc_id	Yes	String	VPC ID. You can call the API for querying VPCs to obtain the VPC ID. The VPC ID is in the response body. For details, see *Virtual Private Cloud API Reference*.

Parameter	Mandatory	Type	Description
security_group_id	Yes	String	Security group which the instance belongs to. You can call the API for querying security groups to obtain the security group ID. The security group ID is in the response body. For details, see *Virtual Private Cloud API Reference*.
subnet_id	Yes	String	Subnet information. You can call the API for querying subnets to obtain the subnet ID. The subnet ID is in the response body. For details, see *Virtual Private Cloud API Reference*.
available_zones	Yes	Array of strings	ID of the AZ where instance brokers reside and which has available resources. Obtain the AZ ID by referring to **Listing AZ Information**. This parameter cannot be empty or null. When creating a Kafka instance, you can select either 1 AZ or at least 3 AZ. When specifying AZs for brokers, use commas (,) to separate multiple AZs.
product_id	Yes	String	Product ID. You can obtain the product ID from **Querying Product Specifications**.
maintain_begin	No	String	Time at which the maintenance time window starts. Format: *HH:mm*.
maintain_end	No	String	Time at which the maintenance time window ends. Format: *HH:mm*.
enable_publicip	No	Boolean	Whether to enable public access. • **true**: enable • **false** (default): disable

Parameter	Mandatory	Type	Description
publicip_id	No	String	ID of the elastic IP address (EIP) bound to an instance. Use commas (,) to separate multiple EIP IDs. This parameter is mandatory if public access is enabled (that is, **enable_publicip** is set to **true**).
ssl_enable	No	Boolean	Whether to enable SSL-encrypted access. This setting is fixed once the instance is created. • **true**: enable • **false**: disable
kafka_security_protocol	No	String	Security protocol to use after SASL is enabled. This parameter is mandatory if SASL authentication is enabled (that is, when **ssl_enable** is set to **true**). If this parameter is left blank, SASL_SSL authentication is enabled by default. This setting is fixed once the instance is created. • **SASL_SSL**: Data is encrypted with SSL certificates for high-security transmission. • **SASL_PLAINTEXT**: Data is transmitted in plaintext with username and password authentication. This protocol uses the SCRAM-SHA-512 mechanism to deliver better performance.

Parameter	Mandatory	Type	Description
sasl_enabled_mechanisms	No	Array of strings	Authentication mechanism to use after SASL is enabled. This parameter is mandatory if SASL authentication is enabled (that is, when **ssl_enable** is set to **true**). If this parameter is left blank, PLAIN authentication is enabled by default. Select both or either of the following mechanisms. Options: • **PLAIN**: simple username and password verification. • **SCRAM-SHA-512**: user credential verification, which is more secure than **PLAIN**.
retention_policy	No	String	Action to be taken when the memory usage reaches the disk capacity threshold. Values: • **produce_reject**: New messages cannot be created. • **time_base**: The earliest messages are deleted.
ipv6_enable	No	Boolean	Indicates whether IPv6 is enabled. This parameter is available only when the VPC supports IPv6.
disk_encrypted_enable	No	Boolean	Indicates whether to enable disk encryption.
disk_encrypted_key	No	String	Disk encryption key. If disk encryption is not enabled, this parameter is left blank.

Parameter	Mandatory	Type	Description
enable_auto_topic	No	Boolean	Indicates whether to enable automatic topic creation. • **true**: enable • **false**: disable If automatic topic creation is enabled, a topic will be automatically created with 3 partitions and 3 replicas when a message is produced to or consumed from a topic that does not exist. The default value is **false**.
storage_spec_code	Yes	String	Storage I/O specification. Values: • **dms.physical.storage.high.v2**: high I/O • **dms.physical.storage.ultra.v2**: ultra-high I/O For details about selecting a disk type, see "Disk Types and Disk Performance" in *Elastic Volume Service User Guide*.
enterprise_project_id	No	String	Enterprise project ID. This parameter is mandatory for an enterprise project account.
tags	No	Array of **TagEntity** objects	List of tags.
arch_type	No	String	CPU architecture. Values: • **x86**
vpc_client_plain	No	Boolean	Private plaintext access in a VPC.

Table 7-52 TagEntity

Parameter	Mandatory	Type	Description
key	No	String	Tag key, which: • Cannot be left blank. • Must be unique for the same instance. • Can contain 1 to 128 characters. • Can contain letters, digits, spaces, and special characters _.:=+-@ • Cannot start or end with a space.
value	No	String	Tag value. • Can contain 0 to 255 characters. • Can contain letters, digits, spaces, and special characters _.:=+-@ • Cannot start or end with a space.

Response

Status code: 200

Table 7-53 Response body parameter

Parameter	Type	Description
instance_id	String	Instance ID.

Example Request

Creating a pay-per-use Kafka instance whose version is 2.7, specifications are 2 vCPUs | 4 GB × 3, and storage space is 300 GB

```
POST https://{endpoint}/v2/{engine}/{project_id}/instances

{
  "name" : "kafka-test",
  "description" : "",
  "engine" : "kafka",
  "engine_version" : "2.7,3.x",
  "storage_space" : 300,
  "vpc_id" : "********-9b4a-44c5-a964-************",
  "subnet_id" : "********-8fbf-4438-ba71-************",
  "security_group_id" : "********-e073-4aad-991f-************",
```



```
 "available_zones" : [ "********706d4c1fb0eb72f0********" ],
 "product_id" : "c6.2u4g.cluster",
 "ssl_enable" : true,
 "kafka_security_protocol" : "SASL_SSL",
 "sasl_enabled_mechanisms" : [ "SCRAM-SHA-512" ],
 "storage_spec_code" : "dms.physical.storage.ultra.v2",
 "broker_num" : 3,
 "arch_type" : "X86",
 "enterprise_project_id" : "0",
 "access_user" : "*********",
 "password" : "*********",
 "enable_publicip" : true,
 "tags" : [ {
  "key" : "aaa",
  "value" : "111"
 } ],
 "retention_policy" : "time_base",
 "disk_encrypted_enable" : true,
 "disk_encrypted_key" : "********-b953-4875-a743-************",
 "publicip_id" : "********-88fc-4a8c-86d0-************,********-16af-455d-8d54-************,********-3d69-4367-95ab-************",
 "vpc_client_plain" : true,
 "enable_auto_topic" : true
}
```

Example Response

Status code: 200

Instance created successfully.

```
{
 "instance_id" : "8959ab1c-7n1a-yyb1-a05t-93dfc361b32d"
}
```

Status Code

Status Code	Description
200	Instance created successfully.

Error Code

See **Error Codes**.

7.2.2 Instance Management

7.2.2.1 Initiating Partition Reassignment for a Kafka Instance

Function

This API is used to submit a partition reassignment task to a Kafka instance or estimate the partition reassignment duration.

NOTE

This API is out-of-date and may not be maintained in the future. Please use the API described in **Initiating Partition Reassignment for a Kafka Instance**.

URI

POST /v2/kafka/*{project_id}*/instances/*{instance_id}*/reassign

Table 7-54 URI parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see **Obtaining a Project ID**.
instance_id	Yes	String	Instance ID.

Request

Table 7-55 Request body parameters

Parameter	Mandatory	Type	Description
reassignments	Yes	Array of **PartitionReassignEntity** objects	Partition reassignment plan.
throttle	No	Integer	Partition reassignment threshold.
is_schedule	No	Boolean	Whether the task is scheduled. If no, **is_schedule** and **execute_at** can be left blank. If yes, **is_schedule** is **true** and **execute_at** must be specified.
execute_at	No	Long	Schedule time. The value is a UNIX timestamp, in ms.
time_estimate	No	Boolean	Set **true** to perform time estimation tasks and **false** to perform reassignment tasks.

Table 7-56 PartitionReassignEntity

Parameter	Mandatory	Type	Description
topic	Yes	String	Topic name

Parameter	Mandatory	Type	Description
brokers	No	Array of integers	List of brokers to which partitions are reassigned. This parameter is mandatory in automatic assignment.
replication_factor	No	Integer	Replication factor, which can be specified in automatic assignment.
assignment	No	Array of **TopicAssignment** objects	Manually specified assignment plan. The **brokers** parameter and this parameter cannot be empty at the same time.

Table 7-57 TopicAssignment

Parameter	Mandatory	Type	Description
partition	No	Integer	Partition number in manual assignment.
partition_brokers	No	Array of integers	List of brokers to be assigned to a partition in manual assignment.

Response

Status code: 200

Table 7-58 Response body parameters

Parameter	Type	Description
job_id	String	Task ID. Only **job_id** is returned for a partition reassignment task.
reassignment_time	Integer	Estimated time, in seconds. Only **reassignment_time** is returned for a time estimation task.

Example Request

```
POST https://{endpoint}/v2/kafka/{project_id}/instances/{instance_id}/reassign

{
  "reassignments" : [ {
    "topic" : "topic-1513476102",
    "brokers" : [ 0, 1, 2 ],
    "replication_factor" : 3,
```



```
    "assignment" : [ {
      "partition" : 0,
      "partition_brokers" : [ 0, 1, 2 ]
    }, {
      "partition" : 1,
      "partition_brokers" : [ 1, 2, 0 ]
    }, {
      "partition" : 2,
      "partition_brokers" : [ 2, 0, 1 ]
    } ]
  }, {
    "topic" : "topic-1513558717",
    "brokers" : [ 0, 1, 4 ],
    "replication_factor" : 3,
    "assignment" : [ {
      "partition" : 0,
      "partition_brokers" : [ 0, 1, 2 ]
    }, {
      "partition" : 1,
      "partition_brokers" : [ 1, 2, 0 ]
    }, {
      "partition" : 2,
      "partition_brokers" : [ 2, 0, 1 ]
    } ]
  } ],
  "throttle" : 10000000,
  "time_estimate" : false
}
```

Example Response

Status code: 200

Reassignment task submitted or the estimated time is returned.

```
{
  "job_id" : "8a2c259182ab0e9d0182ab1882560009",
  "reassignment_time" : 10
}
```

Status Code

Status Code	Description
200	Reassignment task submitted or the estimated time is returned.

Error Code

See **Error Codes**.

7.2.3 Specification Modification Management

7.2.3.1 Querying Product Information for Instance Specification Modification

Function

This API is used to query the product information for instance specification modification.

NOTE

This API is out-of-date and may not be maintained in the future. Please use the API described in **Querying Product Information for Instance Specification Modification**.

URI

GET /v2/*{engine}*/*{project_id}*/instances/*{instance_id}*/extend

Table 7-59 URI parameters

Parameter	Mandatory	Type	Description
engine	Yes	String	Indicates the message engine.
project_id	Yes	String	Project ID. For details, see **Obtaining a Project ID**.
instance_id	Yes	String	Instance ID.

Table 7-60 Query parameter

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a product. • **advanced**: DMS for Kafka

Request

None.

Response

Status code: 200

Table 7-61 Response body parameters

Parameter	Type	Description
engine	String	Message engine: **kafka**
versions	Array of strings	Versions supported by the message engine.
products	Array of **ExtendProductInfoEntity** objects	Product information for specification modification.

Table 7-62 ExtendProductInfoEntity

Parameter	Type	Description
type	String	Instance type.
product_id	String	Product ID.
ecs_flavor_id	String	ECS flavor used by the product.
arch_types	Array of strings	Supported CPU architectures.
charging_mode	Array of strings	Supported billing modes.
ios	Array of **ExtendProductIosEntity** objects	Disk I/O information.
support_features	Array of **ExtendProductSupportFeaturesEntity** objects	Supported features.
properties	**ExtendProductPropertiesEntity** object	Product specification description.
available_zones	Array of strings	AZs where there are available resources.
unavailable_zones	Array of strings	AZs where resources are sold out.

Table 7-63 ExtendProductIosEntity

Parameter	Type	Description
io_spec	String	Storage I/O specification.
available_zones	Array of strings	AZs where there are available resources.
type	String	I/O type.
unavailable_zones	Array of strings	AZs where resources are sold out.

Table 7-64 ExtendProductSupportFeaturesEntity

Parameter	Type	Description
name	String	Feature name.
properties	Map<String,String>	Key-value pair of a feature.

Table 7-65 ExtendProductPropertiesEntity

Parameter	Type	Description
max_partition_per_broker	String	Maximum number of partitions per broker.
max_broker	String	Maximum number of brokers.
max_storage_per_node	String	Maximum storage space of each broker. Unit: GB.
max_consumer_per_broker	String	Maximum number of consumers of each broker.
min_broker	String	Minimum number of brokers.
max_bandwidth_per_broker	String	Maximum bandwidth of each broker.
min_storage_per_node	String	Minimum storage space of each broker. Unit: GB.
max_tps_per_broker	String	Maximum TPS of each broker.
product_alias	String	Alias of **product_id**.

Example Request

This API is used to query the product information for instance specification modification.

```
GET https://{endpoint}/v2/{engine}/{project_id}/instances/{instance_id}/extend?type={type}
```

Example Response

Status code: 200

Successfully queried the product information for instance specification modification.

- Successfully queried the product information for instance specification modification.

```
{
  "engine" : "kafka",
```



```
"versions" : [ "1.1.0", "2.7" ],
"products" : [ {
  "type" : "cluster",
  "product_id" : "c6.2u4g.cluster",
  "ecs_flavor_id" : "c3.large.2",
  "arch_types" : [ "X86" ],
  "charging_mode" : [ "monthly", "hourly" ],
  "ios" : [ {
    "io_spec" : "dms.physical.storage.high.v2",
    "available_zones" : [ "xxx" ],
    "type" : "evs",
    "unavailable_zones" : [ ]
  }, {
    "io_spec" : "dms.physical.storage.ultra.v2",
    "available_zones" : [ "xxx" ],
    "type" : "evs",
    "unavailable_zones" : [ ]
  } ],
  "support_features" : [ {
    "name" : "connector_obs",
    "properties" : {
      "max_task" : "10",
      "max_node" : "10",
      "min_task" : "1",
      "min_node" : "2"
    }
  } ],
  "properties" : {
    "max_partition_per_broker" : "250",
    "max_broker" : "30",
    "max_storage_per_node" : "10000",
    "max_consumer_per_broker" : "4000",
    "min_broker" : "3",
    "product_alias" : "kafka.2u4g.cluster",
    "max_bandwidth_per_broker" : "100",
    "min_storage_per_node" : "100",
    "max_tps_per_broker" : "30000"
  },
  "available_zones" : [ "xxx" ],
  "unavailable_zones" : [ ]
}, {
  "type" : "cluster",
  "product_id" : "c6.2u4g.cluster.dec",
  "ecs_flavor_id" : "c6.large.2",
  "arch_types" : [ "X86" ],
  "charging_mode" : [ "monthly", "hourly" ],
  "ios" : [ {
    "io_spec" : "dms.physical.storage.high.dss.v2",
    "available_zones" : [ "xxx" ],
    "type" : "evs",
    "unavailable_zones" : [ ]
  }, {
    "io_spec" : "dms.physical.storage.ultra.dss.v2",
    "available_zones" : [ "xxx" ],
    "type" : "evs",
    "unavailable_zones" : [ ]
  }, {
    "io_spec" : "dms.physical.storage.ultra.v2",
    "available_zones" : [ "xxx" ],
    "type" : "evs",
    "unavailable_zones" : [ ]
  }, {
    "io_spec" : "dms.physical.storage.high.v2",
    "available_zones" : [ "xxx" ],
    "type" : "evs",
    "unavailable_zones" : [ ]
  } ],
  "support_features" : [ {
    "name" : "connector_obs",
```



```
    "properties" : {
      "max_task" : "10",
      "max_node" : "10",
      "min_task" : "1",
      "min_node" : "2"
    }
  } ],
  "properties" : {
    "max_partition_per_broker" : "100",
    "max_broker" : "30",
    "max_storage_per_node" : "400",
    "max_consumer_per_broker" : "4000",
    "min_broker" : "3",
    "product_alias" : "kafka.2u4g.cluster.dec",
    "max_bandwidth_per_broker" : "100",
    "min_storage_per_node" : "100",
    "max_tps_per_broker" : "30000"
  },
  "available_zones" : [ ],
  "unavailable_zones" : [ "xxx" ]
}, {
  "type" : "cluster",
  "product_id" : "c6.4u8g.cluster",
  "ecs_flavor_id" : "c3.xlarge.2",
  "arch_types" : [ "X86" ],
  "charging_mode" : [ "monthly", "hourly" ],
  "ios" : [ {
    "io_spec" : "dms.physical.storage.high.v2",
    "available_zones" : [ "xxx" ],
    "type" : "evs",
    "unavailable_zones" : [ ]
  }, {
    "io_spec" : "dms.physical.storage.ultra.v2",
    "available_zones" : [ "xxx" ],
    "type" : "evs",
    "unavailable_zones" : [ ]
  } ],
  "support_features" : [ {
    "name" : "connector_obs",
    "properties" : {
      "max_task" : "10",
      "max_node" : "10",
      "min_task" : "1",
      "min_node" : "2"
    }
  } ],
  "properties" : {
    "max_partition_per_broker" : "500",
    "max_broker" : "30",
    "max_storage_per_node" : "20000",
    "max_consumer_per_broker" : "4000",
    "min_broker" : "3",
    "product_alias" : "kafka.4u8g.cluster",
    "max_bandwidth_per_broker" : "100",
    "min_storage_per_node" : "100",
    "max_tps_per_broker" : "100000"
  },
  "available_zones" : [ "xxx" ],
  "unavailable_zones" : [ ]
}, {
  "type" : "cluster",
  "product_id" : "c6.8u16g.cluster",
  "ecs_flavor_id" : "c3.2xlarge.2",
  "arch_types" : [ "X86" ],
  "charging_mode" : [ "monthly", "hourly" ],
  "ios" : [ {
    "io_spec" : "dms.physical.storage.high.v2",
    "available_zones" : [ "xxx" ],
    "type" : "evs",
```



```
    "unavailable_zones" : [ ]
  }, {
    "io_spec" : "dms.physical.storage.ultra.v2",
    "available_zones" : [ "xxx" ],
    "type" : "evs",
    "unavailable_zones" : [ ]
  } ],
  "support_features" : [ {
    "name" : "connector_obs",
    "properties" : {
      "max_task" : "10",
      "max_node" : "10",
      "min_task" : "1",
      "min_node" : "2"
    }
  } ],
  "properties" : {
    "max_partition_per_broker" : "1000",
    "max_broker" : "30",
    "max_storage_per_node" : "30000",
    "max_consumer_per_broker" : "4000",
    "min_broker" : "3",
    "product_alias" : "kafka.8u16g.cluster",
    "max_bandwidth_per_broker" : "100",
    "min_storage_per_node" : "100",
    "max_tps_per_broker" : "150000"
  },
  "available_zones" : [ "xxx" ],
  "unavailable_zones" : [ ]
}, {
  "type" : "cluster",
  "product_id" : "c6.12u24g.cluster",
  "ecs_flavor_id" : "c3.3xlarge.2",
  "arch_types" : [ "X86" ],
  "charging_mode" : [ "monthly", "hourly" ],
  "ios" : [ {
    "io_spec" : "dms.physical.storage.high.v2",
    "available_zones" : [ "xxx" ],
    "type" : "evs",
    "unavailable_zones" : [ ]
  }, {
    "io_spec" : "dms.physical.storage.ultra.v2",
    "available_zones" : [ "xxx" ],
    "type" : "evs",
    "unavailable_zones" : [ ]
  } ],
  "support_features" : [ {
    "name" : "connector_obs",
    "properties" : {
      "max_task" : "10",
      "max_node" : "10",
      "min_task" : "1",
      "min_node" : "2"
    }
  } ],
  "properties" : {
    "max_partition_per_broker" : "1500",
    "max_broker" : "30",
    "max_storage_per_node" : "30000",
    "max_consumer_per_broker" : "4000",
    "min_broker" : "3",
    "product_alias" : "kafka.12u24g.cluster",
    "max_bandwidth_per_broker" : "100",
    "min_storage_per_node" : "100",
    "max_tps_per_broker" : "200000"
  },
  "available_zones" : [ "xxx" ],
  "unavailable_zones" : [ ]
}, {
```



```
  "type" : "cluster",
  "product_id" : "c6.16u32g.cluster",
  "ecs_flavor_id" : "c3.4xlarge.2",
  "arch_types" : [ "X86" ],
  "charging_mode" : [ "monthly", "hourly" ],
  "ios" : [ {
    "io_spec" : "dms.physical.storage.high.v2",
    "available_zones" : [ "xxx" ],
    "type" : "evs",
    "unavailable_zones" : [ ]
  }, {
    "io_spec" : "dms.physical.storage.ultra.v2",
    "available_zones" : [ "xxx" ],
    "type" : "evs",
    "unavailable_zones" : [ ]
  } ],
  "support_features" : [ {
    "name" : "connector_obs",
    "properties" : {
      "max_task" : "10",
      "max_node" : "10",
      "min_task" : "1",
      "min_node" : "2"
    }
  } ],
  "properties" : {
    "max_partition_per_broker" : "2000",
    "max_broker" : "30",
    "max_storage_per_node" : "30000",
    "max_consumer_per_broker" : "4000",
    "min_broker" : "3",
    "product_alias" : "kafka.16u32g.cluster",
    "max_bandwidth_per_broker" : "100",
    "min_storage_per_node" : "100",
    "max_tps_per_broker" : "250000"
  },
  "available_zones" : [ "xxx" ],
  "unavailable_zones" : [ ]
 } ]
}
```


Status Code

Status Code	Description
200	Successfully queried the product information for instance specification modification.

Error Code

See **Error Codes**.

7.2.3.2 Increasing Instance Specifications

Function

This API is used to modify instance specifications.

NOTE

This API is out-of-date and may not be maintained in the future. Please use the API described in **Increasing Instance Specifications**.

URI

POST /v2/*{engine}*/*{project_id}*/instances/*{instance_id}*/extend

Table 7-66 URI parameters

Parameter	Mandatory	Type	Description
engine	Yes	String	Indicates the message engine.
project_id	Yes	String	Project ID. For details, see **Obtaining a Project ID**.
instance_id	Yes	String	Instance ID.

Request Parameters

Table 7-67 Request body parameters

Parameter	Mandatory	Type	Description
oper_type	Yes	String	Operation type. Values: • **storage**: Expand the storage space without adding brokers. • **horizontal**: Add brokers without resizing the storage space of each broker. • **vertical**: Modify the underlying flavor of brokers without adding brokers or storage space.

Parameter	Mandatory	Type	Description
new_storage_space	No	Integer	New storage space. This parameter is valid and mandatory when **oper_type** is set to **storage** or **horizontal**. Instance storage space = Number of brokers × Storage space of each broker. If **oper_type** is set to **storage**, the number of brokers remains unchanged, and the storage space of each broker must be expanded by at least 100 GB. If **oper_type** is set to **horizontal**, the storage space of each broker remains unchanged.
new_broker_num	No	Integer	This parameter is valid only when **oper_type** is set to **horizontal**.
new_product_id	No	String	New product ID for scale-up. This parameter is valid and mandatory when **oper_type** is set to **vertical**. You can obtain the product ID from **Querying Product Specifications**.
publicip_id	No	String	ID of the elastic IP address (EIP) bound to an instance. Use commas (,) to separate multiple EIP IDs. This parameter is mandatory when **oper_type** is set to **horizontal**.

Parameter	Mandatory	Type	Description
tenant_ips	No	Array of strings	Specified private IP address. Only IPv4. The number of specified IP addresses must be less than or equal to the number of new nodes. If the number of specified IP addresses is less than the number of nodes, private IP addresses are randomly allocated to the nodes that are not specified.
second_tenant_subnet_id	No	String	To increase instance specifications, new brokers use the ID of the subnet. This value is transferred when a standby subnet is used in instance expansion. Contact customer service to use the value.

Response Parameters

Status code: **200**

Table 7-68 Response body parameter

Parameter	Type	Description
job_id	String	ID of the specification modification task.

Example Request

- Increasing the storage space (pay-per-use instance)

```
POST https://{endpoint}/v2/{engine}/{project_id}/instances/{instance_id}/extend

{
  "oper_type" : "storage",
  "new_storage_space" : 600
}
```

- Increasing brokers (pay-per-use instance)

```
POST https://{endpoint}/v2/{engine}/{project_id}/instances/{instance_id}/extend

{
  "oper_type" : "horizontal",
  "new_storage_space" : 1600,
  "new_broker_num" : 4,
  "tenant_ips" : [ "127.0.0.1", "127.0.0.2", "127.0.0.3" ]
}
```


- Increasing the broker flavor (pay-per-use instance)

```
POST https://{endpoint}/v2/{engine}/{project_id}/instances/{instance_id}/extend

{
  "oper_type" : "vertical",
  "new_product_id" : "c6.4u8g.cluster"
}
```

Example Response

Status code: **200**

Instance scaled.

```
{
  "job_id" : "93b94287-728d-4bb1-a158-cb66cb0854e7"
}
```

Status Code

Status Code	Description
200	Instance scaled.

Error Codes

See **Error Codes**.

8 Appendix

8.1 Status Code

Table 8-1 lists status codes.

Table 8-1 Status codes

Status Code	Name	Description
100	Continue	The server has received the initial part of the request and the client should continue to send the remaining part.
101	Switching Protocols	The requester has asked the server to switch protocols and the server has agreed to do so. The target protocol must be more advanced than the source protocol. For example, the current HTTP protocol is switched to a later version of HTTP.
200	OK	Request sent successfully.
201	Created	The request has been fulfilled, resulting in the creation of a new resource.
202	Accepted	The request has been accepted for processing, but the processing has not been completed.
203	Non-Authoritative Information	The request has been fulfilled.
204	NoContent	The server has successfully processed the request, but is not returning any response body. The status code is returned in response to an HTTP OPTIONS request.

Status Code	Name	Description
205	Reset Content	The server has fulfilled the request, but the requester is required to reset the content.
206	Partial Content	The server has successfully processed a part of the GET request.
300	Multiple Choices	There are multiple options for the requested resource. For example, this code could be used to present a list of resource characteristics and addresses from which the client such as a browser may choose.
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 was temporarily moved.
303	See Other	The response to the request can be found under another URI using a GET or POST method.
304	Not Modified	The requested resource has not been modified. When the server returns this status code, it does not return any resources.
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 authorization information provided by the client is incorrect or invalid.
402	Payment Required	Reserved for future use.
403	Forbidden	The server has received the request and understood it, but the server is refusing to respond to it. The client should modify the request instead of re-initiating it.
404	NotFound	The requested resource cannot be found. The client should modify the request instead of re-initiating it.

Status Code	Name	Description
405	MethodNotAllowed	A request method is not supported for the requested resource. The client should modify the request instead of re-initiating it.
406	Not Acceptable	The server cannot fulfill 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 server timed out when waiting for the request. The client may re-initiate the request without any modification at any time.
409	Conflict	The request cannot be processed due to a conflict, such as an edit conflict between multiple simultaneous updates or the resource that the client attempts to create already exits.
410	Gone	The requested resource has been deleted permanently and will not be available again.
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 close the connection to prevent the client from continuing the request. If the server cannot process the request temporarily, the response will contain a Retry-After field.
414	Request-URI Too Large	The URI provided was 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.

Status Code	Name	Description
422	UnprocessableEntity	The request is well-formed but is unable to be processed due to semantic errors.
429	TooManyRequests	The client has sent more requests than its rate limit is allowed within a given amount of time, or the server has received more requests than it is able to process within a given amount of time. In this case, the client should re-initiate 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 could not understand the request.
501	Not Implemented	The server does not support the requested function.
502	Bad Gateway	The server was acting as a gateway or proxy and received an invalid request from a remote server.
503	ServiceUnavailable	The requested service is invalid. The client should modify the request instead of re-initiating it.
504	ServerTimeout	The request cannot be fulfilled within a given time. The response will reach the client only if the request carries the **timeout** parameter.
505	HTTP Version not supported	The server does not support the HTTP protocol version used in the request.

8.2 Error Codes

Status Code	Error Codes	Error Message	Description	Solution
400	DMS.00400002	The project ID format is invalid.	Invalid project ID.	Check the project ID format.
400	DMS.00400004	The request body is empty.	The request body is empty.	Check the request body.

Status Code	Error Codes	Error Message	Description	Solution
400	DMS.00400005	The message body is not in JSON format or contains invalid characters.	Check the project ID format.	Check the message body format.
400	DMS.00400007	Unsupported type.	Unsupported type.	Check the type.
400	DMS.00400008	Unsupported version.	Unsupported version.	Check the version.
400	DMS.00400009	Invalid product_id.	Invalid product_id in the request.	Check the product_id parameter.
400	DMS.00400010	Invalid instance name. The name must be 4 to 64 characters long. Only letters, digits, underscores (_), and hyphens (-) are allowed.	Invalid instance name. The name must be 4 to 64 characters long. Only letters, digits, underscores (_), and hyphens (-) are allowed.	Check the instance name.
400	DMS.00400011	The instance description can contain a maximum of 1024 characters.	The instance description can contain a maximum of 1024 characters.	Check the instance description.

Status Code	Error Codes	Error Message	Description	Solution
400	DMS.00400012	Invalid password format.	The password does not meet the complexity requirements.	Check whether the password meets the requirements. A password: • Can contain 8 to 32 characters. • Must contain at least three of the following character types: letters, digits, and special characters `~!@#$%^&*()-_=+|[{}]:'", ./? • Cannot be a weak password.
400	DMS.00400013	vpc_id in the request is empty.	Request parameter vpc_id is empty.	Check the vpc_id parameter.
400	DMS.00400014	security_group_id in the request is empty.	Request parameter security_group_id is empty.	Check the security_group_id parameter.
400	DMS.00400015	Invalid username. A username must be 4 to 64 characters long and consist of only letters, digits, and hyphens (-).	Invalid username. A username must be 4 to 64 characters long and consist of only letters, digits, and hyphens (-).	Check the username.
400	DMS.00400016	subnet_id in the request is empty.	Request parameter subnet_id is empty.	Check the subnet_id parameter.

Status Code	Error Codes	Error Message	Description	Solution
400	DMS.00400017	This DMS instance job task is still running.	A background task associated with this instance is running.	Try again later.
400	DMS.00400018	This subnet must exist in the VPC.	The subnet must exist in the VPC.	Check the subnet.
400	DMS.00400019	The password does not meet the complexity requirements.	The password does not meet the complexity requirements.	Check whether the password meets the requirements.
400	DMS.00400020	DHCP must be enabled for this subnet.	DHCP must be enabled for the subnet.	Check the DHCP status.
400	DMS.00400021	The isAutoRenew parameter in the request must be either 0 or 1.	Invalid isAutoRenew in the request.	Check the isAutoRenew parameter.
400	DMS.00400022	Engine does not match the product id.	The engine and product ID parameters do not match.	Check the engine parameter.
400	DMS.00400026	This operation is not allowed due to the instance status.	This operation is not allowed when the instance is in the current state.	Check the instance status.
400	DMS.00400028	Query advanced product, specCode not exists.	The specCode does not exist during the advanced feature query.	Check the origin_spec_code parameter.

Status Code	Error Codes	Error Message	Description	Solution
400	DMS.00400029	Query advanced product failed, can not find product for request.	The specCode does not exist during the advanced feature query.	Check the origin_spec_code parameter.
400	DMS.00400030	Invalid DMS instance id. The id must be a uuid.	Invalid instance ID.	Check the id parameter.
400	DMS.00400035	DMS instance quota of the tenant is insufficient.	Insufficient instance quota.	Apply for a higher quota.
400	DMS.00400037	The instanceParams parameter in the request contains invalid characters or is not in JSON format.	Request parameter instanceParams is not in JSON format or contains invalid characters.	Check the request parameter.
400	DMS.00400038	The periodNum parameter in the request must be an integer.	The periodNum parameter in the request must be an integer.	Check the periodNum parameter.
400	DMS.00400039	The quota limit has been reached.	The quota limit has been reached.	Apply for a higher quota.
400	DMS.00400042	The AZ does not exist.	The AZ does not exist.	Check the AZ.
400	DMS.00400045	The instance is not frozen and cannot be unfrozen.	The instance cannot be unfrozen because it is not frozen.	Check the instance status.
400	DMS.00400046	This security group does not exist.	The security group does not exist.	Check the security group.

Status Code	Error Codes	Error Message	Description	Solution
400	DMS.00400047	The periodType parameter in the request must be either 2 or 3.	Invalid periodType in the request.	Check the periodType parameter.
400	DMS.00400048	Invalid security group rules. Ensure that rules with the protocol being ANY are configured for both the inbound and outbound directions.	The security group must have both outbound and inbound rules with protocols set to ANY.	Check the security group rules.
400	DMS.00400049	The availability zone does not support ipv6.	The AZ does not support IPv6.	Select another AZ.
400	DMS.00400051	not found the new setup version tar to upgrade instance.	The package for upgrading the instance to the target version is not found.	Select another target version.
400	DMS.00400052	only the instance at running status can upgrade.	Only running instances can be upgraded.	Try again later.
400	DMS.00400053	the upgrade instance version equals to current version.	The target version is the same as the current version.	Select another target version.
400	DMS.00400055	Resource sold out.	Resources, such as ECS and volume resources, are insufficient.	Try again later.

Status Code	Error Codes	Error Message	Description	Solution
400	DMS.00400060	This instance name already exists.	The instance name already exists.	Check the instance name.
400	DMS.00400061	Invalid instance ID format.	Invalid instance ID.	Check the instance ID.
400	DMS.00400062	Invalid request parameter.	Invalid request parameters.	Check the request parameters.
400	DMS.00400063	Invalid configuration parameter {0}.	Invalid configuration parameter {0}.	Check the parameter.
400	DMS.00400064	The action parameter in the request must be delete or restart.	The action parameter in the request must be delete or restart.	Check the action parameter.
400	DMS.00400065	The instances parameter in the request is empty.	The instances parameter in the request is empty.	Check the instances parameter.
400	DMS.00400066	Invalid configuration parameter {0}.	Invalid configuration parameter {0}.	Check the parameter.
400	DMS.00400067	The available_zones parameter in the request must be an array that contains only one AZ ID.	Request parameter available_zones must be an array that contains only one AZ ID.	Check the available_zones parameter.
400	DMS.00400068	The VPC does not exist.	The VPC does not exist.	Check the VPC.
400	DMS.00400070	Invalid task ID format.	Invalid task ID.	Check the task ID.

Status Code	Error Codes	Error Message	Description	Solution
400	DMS.00400077	Insufficient IPs in the selected subnet.	Too few IP addresses in the selected subnet.	Select another subnet with sufficient IP addresses.
400	DMS.00400081	Duplicate instance name.	The instance name already exists.	Check the instance name.
400	DMS.00400082	Instance id is repeated.	The instance ID already exists.	Check the instance ID.
400	DMS.00400085	The message body contains invalid characters or is not in JSON format. The error key is <key>.	The message body is not in JSON format or contains invalid characters.	Check the message body.
400	DMS.00400099	The following instances in the Creating, Starting, Stopping, or Restarting state cannot be deleted.	Instances ({}) in the Creating, Starting, Stopping, or Restarting state cannot be deleted.	Check the instance status.
400	DMS.00400100	The instances array can contain a maximum of 50 instance IDs.	The instances array can contain a maximum of 50 instance IDs.	Check the instance quantity.

Status Code	Error Codes	Error Message	Description	Solution
400	DMS.00400101	The name of a Kafka topic must be 4 to 64 characters long and start with a letter. Only letters, digits, underscores (_), and hyphens (-) are allowed.	The name of a topic in a Kafka instance must be 4 to 64 characters long and start with a letter. Only letters, digits, underscores (_), and hyphens (-) are allowed.	Check the topic name.
400	DMS.00400102	The number of partitions created for a Kafka topic must be within the range of 1-200.	The number of partitions created for a topic in a Kafka instance must be within the range of 1-200.	Check the number of partitions of the topic.
400	DMS.00400103	The number of replicas created for a Kafka topic must be within the range of 1-20.	The number of replicas created for a topic in a Kafka instance must be within the range of 1-20.	Check the number of replicas of the topic.
400	DMS.00400105	The message retention period of a Kafka topic must be within the range of 1-168.	The aging time of a topic in a Kafka instance must be within the range of 1-168.	Check the aging time of the topic.
400	DMS.00400106	Invalid maintenance time window.	Invalid maintenance time window.	Check the maintenance time window parameter.

Status Code	Error Codes	Error Message	Description	Solution
400	DMS.00400107	The instance exists for unpaid scale up orders. Please process non payment orders first.	A specification modification order for the instance is pending.	Process the order first.
400	DMS.00400108	The Instance exists for processing scale up order. Please try again later.	A specification modification order for the instance is being processed.	Try again later.
400	DMS.00400124	The maximum number of disk expansion times has been reached.	The maximum number of disk expansion times has been reached.	Check the maximum number of disk expansion times.
400	DMS.00400125	Invalid SPEC_CODE.	Invalid SPEC_CODE.	Check SPEC_CODE.
400	DMS.00400127	Instance not support to change retention_policy.	The instance does not support retention policy changes.	Contact technical support.
400	DMS.00400128	Invalid public access parameters.	Invalid public access parameters.	Check the public access parameters.
400	DMS.00400129	Current instance version is less than required.	The instance version does not support this operation.	Contact technical support.
400	DMS.00400134	There is another order need to pay first.	An unpaid order exists.	Pay for the order first.
400	DMS.00400135	Not support disk encrypted.	Disk encryption is not supported.	Do not enable disk encryption.

Status Code	Error Codes	Error Message	Description	Solution
400	DMS.00400136	Disk encrypted key is null.	The disk encryption key is empty.	Check the disk encryption key.
400	DMS.00400137	Disk encrypted key state is not enabled.	The disk encryption key is not enabled.	Enable the disk encryption key.
400	DMS.00400142	Timestamp is invalid.	Timestamp is invalid.	Enter a correct timestamp.
400	DMS.00400500	Invalid disk space.	Invalid disk space.	Check the disk space.
400	DMS.00400800	Invalid request parameter. Check the request parameter.	Invalid request parameter.	Check the request parameters.
400	DMS.00400861	Replication factor larger than available brokers.	The number of replicas in the topic to be created is greater than the number of available brokers.	Contact technical support.
400	DMS.00400882	The topic offset cannot be deleted: The topic is subscribed by the current consumer group.	The topic offset cannot be deleted: The topic is subscribed by the current consumer group.	Cancel the subscription relationship between the topic and the consumer group.
400	DMS.00400970	RabbitMQ plugin is not exist	Invalid plugin name	Check the plugin list.
400	DMS.00400971	The instance ssl is off.	The instance ssl is off.	View the instance details and check whether SSL is enabled.
400	DMS.00400975	Failed to query topics.	Failed to query topics.	Check whether the topic exists.

Status Code	Error Codes	Error Message	Description	Solution
400	DMS.00404033	Does not support extend rabbitMQ disk space.	The RabbitMQ disk space cannot be expanded.	Scale out the RabbitMQ cluster.
400	DMS.00500033	Failed to access EPS to update the project	Failed to access EPS to update the project	Contact technical support.
400	DMS.00500978	Consumer group name exits.	Consumer group name exits.	Please check the consumer group name.
400	DMS.00500980	Partition reassigning.	Partition reassigning.	Please check partition reassignment.
400	DMS.00500982	Insufficient broker disk.	Insufficient broker disk.	Check target broker disk capacity.
400	DMS.00500986	Your account has been restricted.	Your account is suspended.	Contact the billing center.
400	DMS.00500987	Balance is not enough	Insufficient balance.	Top up your account and try again later.
400	DMS.10240002	The number of queried queues exceeds the upper limit.	The maximum number of queried queues has been reached.	Check the queue quantity.
400	DMS.10240004	The tag name is invalid.	Invalid tag name.	Check the tag name.
400	DMS.10240005	The project ID format is invalid.	Invalid project ID.	Check the project ID format.
400	DMS.10240007	The name contains invalid characters.	The name contains invalid characters.	Check the name.

Status Code	Error Codes	Error Message	Description	Solution
400	DMS.10240009	The message body is not in JSON format or contains invalid characters.	The message body is not in JSON format or contains invalid characters.	Check the message body.
400	DMS.10240010	The description contains invalid characters.	The description contains invalid characters.	Check the description.
400	DMS.10240011	The name length must be 1 to 64 characters.	The name can contain 1 to 64 characters.	Check the name length.
400	DMS.10240012	The name length must be 1 to 32 characters.	The name can contain 1 to 32 characters.	Check the name length.
400	DMS.10240013	The description length must not exceed 160 characters.	The description can contain a maximum of 160 characters.	Check the description length.
400	DMS.10240014	The number of consumable messages exceeds the maximum limit.	The number of consumable messages is not within the allowed range.	Check the number of consumable messages.
400	DMS.10240015	The queue ID format is invalid.	Invalid queue ID.	Check the queue ID.
400	DMS.10240016	The group ID format is invalid.	Invalid group ID.	Check the group ID.
400	DMS.10240017	The queue already exists.	The queue already exists.	Check whether the queue exists.
400	DMS.10240018	The consumer group already exists.	The consumer group already exists.	Check whether the consumer group exists.

Status Code	Error Codes	Error Message	Description	Solution
400	DMS.10240019	The number of consumer groups exceeds the upper limit.	The number of consumer groups exceeds the upper limit.	Check the number of consumer groups.
400	DMS.10240020	The quota is insufficient.	Insufficient quota.	Check the quota.
400	DMS.10240021	The value of time_wait is not within the value range of 1-60.	The value of time_wait is not within the range of 1-60.	Check the value of time_wait.
400	DMS.10240022	The value of max Consume Count must be within the range of 1-100.	The value of max Consume Count must be within the range of 1-100.	Check the value of max Consume Count.
400	DMS.10240027	The value of retention_hours must be an integer in the range of 1-72.	The value of retention_hours must be an integer in the range of 1-72.	Check the value of retention_hours.
400	DMS.10240028	Non-kafka queues do not support retention_hours.	Non-kafka queues do not support retention_hours.	Check whether the queue is a Kafka queue. If not, do not set retention_hours.
400	DMS.10240032	The queue is being created.	The queue is being created.	Check whether the queue is being created.
400	DMS.10240035	The tag key is empty or too long.	The tag key of the queue is empty or too long.	Check the tag key of the queue.
400	DMS.10240036	The tag key contains invalid characters.	The tag key of the queue contains invalid characters.	Check the tag key of the queue.
400	DMS.10240038	The tag value is too long.	The tag value is too long.	Check the tag value of the queue.

Status Code	Error Codes	Error Message	Description	Solution
400	DMS.10240039	The tag value contains invalid characters.	The tag value contains invalid characters.	Check the tag value of the queue.
400	DMS.10240040	You can only create or delete tags.	You can only create or delete tags.	Check whether the operation meets the requirements.
400	DMS.10240041	You can only filter or count tags.	You can only filter or count tags.	Check whether the operation meets the requirements.
400	DMS.10240042	The number of records on each page for pagination query exceeds the upper limit.	The number of records on each page for pagination query exceeds the upper limit.	Check the page size.
400	DMS.10240043	The number of skipped records for pagination query exceeds the upper limit.	The offset for pagination query exceeds the upper limit.	Check the paging offset.
400	DMS.10240044	A maximum of 10 tags can be created.	A maximum of 10 tags can be created.	Check the tag quantity.
400	DMS.10240045	The tag key has been used.	The tag key has been used.	Check whether the tag key has been used.
400	DMS.10540001	The message body contains invalid fields.	The message body contains invalid fields.	Check the message body.
400	DMS.10540003	Message ack status must be either 'success' or 'fail'. It should not be '{status}'.	Message ack status must be either success or fail. It should not be {status}.	Check whether the status meets the requirements.

Status Code	Error Codes	Error Message	Description	Solution
400	DMS.10540004	Request error	Request error. The queue or group name does not match the handler.	Check whether the queue or group name matches the handler.
400	DMS.10540010	The request format is incorrect	The request format is incorrect. {Error description}	Check the request format.
400	DMS.10540011	The message size is {message size}, larger than the size limit {max allowed size}.	The message size is {message size}, larger than the size limit {max allowed size}.	Check the request body size.
400	DMS.10540012	The message body is not in JSON format or contains invalid characters.	The message body is not in JSON format or contains invalid characters.	Check the message body format.
400	DMS.10540014	The URL contains invalid parameters.	The URL contains invalid parameters.	Check the URL parameters.
400	DMS.10540202	The request format is incorrect	The request format is incorrect. {Error description}	Check the request format.
400	DMS.10542204	Failed to consume messages due to {desc}.	Failed to consume messages. {Error description}	Check the error information and rectify the fault accordingly.

Status Code	Error Codes	Error Message	Description	Solution
400	DMS.10542205	Failed to obtain the consumption instance because the handler does not exist. This may be because the consumer instance is released 1 minute after the message is consumed. As a result, the consumer instance fails to be obtained from the handler.	Failed to obtain the consumption instance because the handler does not exist. This may be because the consumer instance is released 1 minute after the message is consumed.	Check the handler.
400	DMS.10542206	The value of ack_wait must be within the range of 15-300.	The value of ack_wait must be within the range of 15-300.	Check the value of ack_wait.
400	DMS.10542209	The handler does not exist because the handler fails to be parsed, the message consumption times out, or the message consumption is repeatedly acknowledged.	The handler does not exist because the handler fails to be parsed, the message consumption times out, or the message consumption is repeatedly acknowledged.	Check whether the handler or consumption acknowledgment times out.
400	DMS.10542214	The request format is incorrect	The request format is incorrect. {Error description}	Check the request format.

Status Code	Error Codes	Error Message	Description	Solution
400	DMS.111400860	Instance partition is not enough. Total partition is over the partition limitation.	Instance partition is not enough. Total partition is over the partition limitation.	Check whether the partition quantity is exceeded.
400	DMS.40001016	Invalid Kafka config for connector.	Invalid Kafka config for connector.	Check the configuration based on the error message and fix it.
400	DMS.40050005	Requested topic already exits.	Requested topic already exits.	Please check the requested topic.
400	DMS.40050015	Consumer group exits.	Consumer group exits.	Please check the consumer group.
400	DMS.50050004	The consumer group is offline.	The consumer group is offline.	Start the consumer instance in the consumer group.
401	DMS.10240101	Invalid token.	Invalid token.	Check whether the token is valid.
401	DMS.10240102	Expired token.	The token has expired.	Check whether the token has expired.
401	DMS.10240103	Missing token.	The token is missing.	Check whether the token is missing.
401	DMS.10240104	The project ID and token do not match.	The project ID and token do not match.	Check whether the project ID matches the token.
403	DMS.00403002	A tenant has the read-only permission and cannot perform operations on DMS.	You cannot perform operations on DMS because you only have read permissions.	Check the tenant permission.

Status Code	Error Codes	Error Message	Description	Solution
403	DMS.00403003	This role does not have the permissions to perform this operation.	This role does not have the permissions to perform this operation.	Check the role permission.
403	DMS.00403007	Authorization denied.	Action does not allow to performed.	Plese check your permissions.
403	DMS.10240304	Change the quota of a queue or consumer group to a value smaller than the used quota.	The quota of a queue or consumer group cannot be smaller than the used amount.	Check the quota.
403	DMS.10240306	The tenant has been frozen. You cannot perform operations on DMS.	The tenant has been frozen. You cannot perform operations on DMS.	Check the tenant status.
403	DMS.10240307	The consumer group quota must be within the range of 1-10.	The consumer group quota must be within the range of 1-10.	Check whether the number of consumer groups exceeds the quota.
403	DMS.10240308	The queue quota must be within the range of 1-20.	The queue quota must be within the range of 1-20.	Check whether the number of queues exceeds the quota.
403	DMS.10240309	Access denied. You cannot perform operations on DMS.	Access denied. You cannot perform operations on DMS.	Check whether you have the permission required to perform this operation.
403	DMS.10240310	A tenant has the read-only permission and cannot perform operations on DMS.	The tenant has read-only permissions and cannot perform operations on DMS.	Check the tenant permission.

Status Code	Error Codes	Error Message	Description	Solution
403	DMS.10240311	This role does not have the permissions to perform this operation.	This role does not have the permissions required to perform operations on DMS.	Check the role permission.
403	DMS.10240312	The tenant is restricted and cannot perform operations on DMS.	The tenant is restricted and cannot perform operations on DMS.	Check the role permission.
404	DMS.00404001	The requested URL does not exist.	The requested URL does not exist.	Check the URL.
404	DMS.00404022	This instance does not exist.	The instance does not exist.	Check whether the instance exists.
404	DMS.10240401	The queue ID is incorrect or not found.	The queue ID is incorrect or is not found.	Check whether the queue ID exists and is correct.
404	DMS.10240405	The consumption group ID is incorrect or not found.	The consumption group ID is incorrect or is not found.	Check whether the consumer group ID exists and is correct.
404	DMS.10240406	The URL or endpoint does not exist.	The URL or endpoint does not exist.	Check whether the URL or endpoint exists and is correct.
404	DMS.10240407	The request is too frequent. Flow control is being performed. Please try again later.	The request is sent too frequently and flow control is being performed. Please try again later.	Try again later.
404	DMS.10240426	No tag containing this key exists.	No tags containing this key exist.	Check the tag.

Status Code	Error Codes	Error Message	Description	Solution
404	DMS.10540401	The queue name does not exist.	The queue name does not exist.	Check whether the queue name exists.
405	DMS.00405001	This request method is not allowed.	The request method is not allowed.	Check the request method.
408	DMS.111501024	Query timed out	Message query timeout	Please query later
500	111500032	Create order failed.	Create order failed.	Please contact technical support.
500	DMS.00500000	Internal service error.	Internal service error.	Contact technical support.
500	DMS.00500006	Internal service error.	Internal service error.	Contact technical support.
500	DMS.00500017	Internal service error.	Internal service error.	Contact technical support.
500	DMS.00500024	Internal service error.	Internal service error.	Contact technical support.
500	DMS.00500025	Internal service error.	Internal service error.	Contact technical support.
500	DMS.00500041	Internal service error.	Internal service error.	Contact technical support.
500	DMS.00500052	Internal service error.	Failed to submit the instance upgrade job.	Contact technical support.
500	DMS.00500053	Internal service error.	The specified instance node is not found.	Contact technical support.
500	DMS.00500054	Internal service error.	Failed to generate the password.	Contact technical support.
500	DMS.00500070	Internal service error.	Failed to configure the instance.	Contact technical support.
500	DMS.00500071	Internal service error.	Failed to create the instance backup policy.	Contact technical support.

Status Code	Error Codes	Error Message	Description	Solution
500	DMS.00500094	Internal service error.	Internal service error.	Contact technical support.
500	DMS.00500106	Internal service error.	Internal service error.	Contact technical support.
500	DMS.00500990	Failed to update topics.	Failed to update topics.	Contact technical support.
500	DMS.00501000	Failed to create agency, may be you do not have the agency permission.	Failed to create agency	check whether the current user has the agency permission.
500	DMS.00501001	Failed to get agency roleId.	Failed to get agency roleId.	retry the request later
500	DMS.00501002	Failed to query agency roleId.	Failed to query the role ID based on the role name.	Check whether the role name in the request is correct.
500	DMS.00501003	Failed to grant role to agency.	Failed to grant role to agency.	Try again later, or contact technical support
500	DMS.10250002	Internal service error.	Internal service error.	Contact technical support.
500	DMS.10250003	Internal service error.	Internal service error.	Contact technical support.
500	DMS.10250004	Internal service error.	Internal service error.	Contact technical support.
500	DMS.10250005	Internal communication error.	Internal communication error.	Contact technical support.
500	DMS.10250006	Internal service error.	Internal service error.	Contact technical support.
500	DMS.10550035	tag_type must be either or or and.	tag_type must be either 'or' or 'and'.	Check tag_type.
501	DMS.00501118	Insufficient CPU quota.	Insufficient CPU quota.	Apply for CPU quota.

Status Code	Error Codes	Error Message	Description	Solution
501	DMS.111501026	Maximum bytes per query reached.	Maximum bytes per query reached.	Shorten the time range to ensure that the number of queried bytes does not exceed the limit, or use other methods to query data.
503	DMS.111501025	Query Busy. Please try again later.	Message query busy	Please query later

8.3 Instance Status

Table 8-2 Instance status description

Status	Description
CREATING	The instance is being created.
CREATEFAILED	The instance fails to be created.
RUNNING	The instance is running properly. Instances in this state can provide services.
ERROR	The instance is not running properly.
RESTARTING	The instance is being restarted.
EXTENDING	The instance specifications are being changed.
EXTENDEDFAILED	The instance specifications failed to be changed.
DELETING	The instance is being deleted.

8.4 Obtaining a Project ID

Scenario

A project ID is required for some URLs when an API is called. Obtain a project ID using either of the following methods:

- **Obtaining a Project ID by Calling an API**
- **Obtaining a Project ID on the Console**

Obtaining a Project ID by Calling an API

You can obtain a project ID by calling the IAM API used to query projects based on specified criteria.

The API used to obtain a project ID is **GET https://*{Endpoint}*/v3/projects**, where *{Endpoint}* indicates the IAM endpoint. You can obtain the IAM endpoint from **Regions and Endpoints**. For details on API calling authentication, see **Authentication**.

The following is an example response. The value of **id** in the **projects** section is the project ID:

```
{
    "projects": [
        {
            "domain_id": "65382450e8f64ac0870cd180d14e684b",
            "is_domain": false,
            "parent_id": "65382450e8f64ac0870cd180d14e684b",
            "name": "xxx-xxx-xxx",
            "description": "",
            "links": {
                "next": null,
                "previous": null,
                "self": "https://www.example.com/v3/projects/a4a5d4098fb4474fa22cd05f897d6b99"
            },
            "id": "a4a5d4098fb4474fa22cd05f897d6b99",
            "enabled": true
        }
    ],
    "links": {
        "next": null,
        "previous": null,
        "self": "https://www.example.com/v3/projects"
    }
}
```

Obtaining a Project ID on the Console

A project ID is required for some URLs when an API is called. You can obtain a project ID on the console.

The following procedure describes how to obtain a project ID:

Step 1 Log in to the management console.

Step 2 Click the username and choose **My Credentials** from the drop-down list.

On the **My Credentials** page, view project IDs in the project list.

----End

8.5 Obtaining the Account Name and Account ID

The account name and account ID are required for some URLs when an API is called. The following procedure describes how to obtain the domain and domain ID:

1. Log in to the console.
2. Click the username and choose **My Credentials** from the drop-down list.

View the account name and account ID.

A Change History

Released On	Change History
2025-08-29	This issue incorporates the following change: • Added the APIs for **deleting the consumer offset of a consumer group in a specified topic** and **querying the core quantity of a Kafka product flavor**.
2025-04-30	This issue incorporates the following change: • Added APIs for **disabling Kafka Manager**, **deleting topic quotas**, **creating a topic quota**, **modifying topic quotas**, and **querying topic quotas**.
2025-01-24	This issue incorporates the following change: • Added V2 APIs.
2020-08-17	This issue is the first official release.

