

# Distributed Message Service for RocketMQ

## API Reference

|       |            |
|-------|------------|
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# 1 Before You Start

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Welcome to *Distributed Message Service for RocketMQ API Reference*. Distributed Message Service (DMS) for RocketMQ is message-oriented middleware that delivers low latency, high flexibility, high throughput, dynamic expansion, easy management, and abundant messaging functions.

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

---

## NOTICE

DMS for RocketMQ is continuously upgraded with new functions, and the existing APIs are inevitably adjusted. For example, new response parameters may be added.

To reduce the impact of API changes, DMS for RocketMQ is backward compatible with existing APIs. When using DMS, you should accept and ignore unused parameters and parameter values in JSON responses.

---

DMS for RocketMQ 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 and has full access permissions for all of its cloud services and resources. It can be used to reset user passwords and grant user permissions. The account is a payment entity and should not be used directly to perform routine management. For security purposes, create IAM users and grant them permissions for routine management.

- **IAM user**  
An Identity and Access Management (IAM) user is created using an account 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**  
Regions are defined by their geographical location and network latency. Public services, such as Elastic Cloud Server (ECS), Elastic Volume Service (EVS), and Object Storage Service (OBS), are shared within the same region. There are universal regions and dedicated regions. A universal region serves all tenants, while a dedicated region serves specific tenants.
- **Availability Zone (AZ)**  
An AZ comprises one or more physical data centers equipped with independent ventilation, fire suppression, moisture-proof, and power facilities. Computing, 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 support 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 enterprise projects are logically isolated from each other. An enterprise project can contain resources of multiple regions, and resources can be added to or removed from enterprise projects.  
For details about enterprise project features and how to obtain enterprise project IDs, see the [Enterprise Management User Guide](#).

# 2 API Overview

Table 2-1 APIs for managing instances

| API                       | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lifecycle Management      | Includes <ul style="list-style-type: none"><li>• Creating a Pay-per-Use Instance</li><li>• Querying the Instance List</li><li>• Querying an Instance</li><li>• Deleting an Instance</li><li>• Modifying Instance Information</li><li>• Batch Deleting Instances</li><li>• Querying the Broker List</li></ul>                                                                                                                                                 |
| Consumer Group Management | Includes: <ul style="list-style-type: none"><li>• Querying the Consumer Group List</li><li>• Creating a Consumer Group or Batch Deleting Consumer Groups</li><li>• Batch Modifying Consumer Groups</li><li>• Deleting a Consumer Group</li><li>• Querying a Consumer Group</li><li>• Modifying a Consumer Group</li><li>• Querying the Consumer Group List or Details</li><li>• Resetting the Consumer Offset</li><li>• Querying the Consumer List</li></ul> |

| API                        | Description                                                                                                                                                                                                                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Topic Management</b>    | Includes: <ul style="list-style-type: none"> <li>• Creating a Topic or Deleting Topics in Batches</li> <li>• Querying the Topic List</li> <li>• Deleting a Topic</li> <li>• Querying a Topic</li> <li>• Modifying a Topic</li> <li>• Querying the Topic Consumer Group List</li> <li>• Querying the Number of Messages in a Topic</li> </ul>  |
| <b>Message Management</b>  | Includes: <ul style="list-style-type: none"> <li>• Querying Messages</li> <li>• Sending a Message</li> <li>• Querying the Message Trace</li> <li>• Exporting Dead Letter Messages</li> <li>• Resending Dead Letter Messages</li> <li>• Verifying Consumption</li> </ul>                                                                       |
| <b>User Management</b>     | Includes: <ul style="list-style-type: none"> <li>• Creating a User</li> <li>• Querying the User List</li> <li>• Modifying User Parameters</li> <li>• Querying User Details</li> <li>• Deleting a User</li> <li>• Querying Users Granted Permissions for a Topic</li> <li>• Querying Users Granted Permissions for a Consumer Group</li> </ul> |
| <b>Metadata Migration</b>  | Includes: <ul style="list-style-type: none"> <li>• Creating a Metadata Migration Task</li> <li>• Querying All Migration Tasks or a Specified Migration Task of an Instance</li> <li>• Deleting Metadata Migration Tasks in Batches</li> </ul>                                                                                                 |
| <b>Managing Parameters</b> | Includes: <ul style="list-style-type: none"> <li>• Querying RocketMQ Configurations</li> <li>• Modifying RocketMQ Configurations</li> </ul>                                                                                                                                                                                                   |
| <b>Tag Management</b>      | Includes: <ul style="list-style-type: none"> <li>• Adding or Deleting Tags in Batches</li> <li>• Querying Instance Tags</li> <li>• Querying Project Tags</li> </ul>                                                                                                                                                                           |

| API                                          | Description                                                                                                                                                                                                                                                                               |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Specification Modification Management</b> | Includes: <ul style="list-style-type: none"><li>• Querying Product Information for Instance Specification Modification</li><li>• Modifying Instance Specifications</li><li>• Querying Pre-check Information Before Expanding a RocketMQ Instance</li></ul>                                |
| <b>Managing an Instance</b>                  | Includes: <ul style="list-style-type: none"><li>• Modifying SSL of an Instance</li></ul>                                                                                                                                                                                                  |
| <b>Background Task Management</b>            | Includes: <ul style="list-style-type: none"><li>• Querying a Specific Record from Background Tasks</li><li>• Deleting a Specific Record from Background Tasks</li><li>• Querying a Background Task List of an Instance</li><li>• Querying Progress of an Instance Change Record</li></ul> |
| <b>Other APIs</b>                            | Includes: <ul style="list-style-type: none"><li>• Querying AZ Information</li><li>• Querying Flavor List</li><li>• Querying RocketMQ Instance Monitoring Dimensions</li><li>• Obtaining the Feature Switch List</li><li>• Querying vCPUs of a RocketMQ Flavor</li></ul>                   |

# 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 [creating an IAM user](#) as an example to describe how to call an API.

### 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.<br>For example, the endpoint of IAM in the <b>EU-Dublin</b> region is <b>iam.myhuaweicloud.eu</b> . |
| 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 <b>creating an IAM user</b> is <b>/v3.0/OS-USER/users</b> .                                                              |
| query-string  | Query parameter, which is optional. Ensure that a question mark (?) is included before each query parameter that is in the format of <i>Parameter name=Parameter value</i> . For example, <b>?limit=10</b> indicates that a maximum of 10 data records will be displayed.       |

For example, to obtain an IAM token in the **EU-Dublin** region, obtain the endpoint of IAM (**iam.myhuaweicloud.eu**) for this region and the resource-path (**/v3.0/OS-USER/users**) in the URI of the API used for **creating an IAM user**. Then, construct the URI as follows:

```
https://iam.myhuaweicloud.eu/v3.0/OS-USER/users
```

#### 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 **creating an IAM user**, the request method is **POST**. The request is as follows:

```
https://iam.myhuaweicloud.eu/v3.0/OS-USER/users
```

## Request Header

You can also add additional header fields to a request, such as the fields required by a specified URI or HTTP method. For example, to request 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 <i>Hostname.Port number</i> . If no port is specified, the default port will be used. For HTTPS, port 443 is used by default. | No<br><br>This parameter is mandatory for AK/SK authentication.                                                                               | code.test.com<br>or<br>code.test.com:443 |
| Content-Type   | Message body type or format. The default value <b>application/json</b> 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 <a href="#">Obtaining a Project ID</a> .                                                                                                                              | No<br><br>This field is mandatory for requests that use AK/SK authentication in the Dedicated Cloud (DeC) scenario or multi-project scenario. | e9993fc787d94b6c886cb<br>aa340f9c0f4     |

| Name         | Description                                                                                                                                                                                                                                                                      | Mandatory                                       | Example Value                                                                             |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------------------------------|
| X-Auth-Token | User token.<br>The user token is a response to the API used for <b>obtaining a user token</b> . This API is the only one that does not require authentication.<br>After the request is processed, the value of <b>X-Subject-Token</b> in the response header is the token value. | No<br>Mandatory for token-based authentication. | The following is part of an example token:<br>MIIPAgYJKoZlhvcNAQc-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 **creating an IAM user** requires authentication using AK/SK. An example of such requests is as follows:

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

## Request Body (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.

For an API for **creating an IAM user**, the required parameter and description are in the request part of the API. An example of such requests is as follows. Use actual values in the bold fields.

- **accountid** indicates the account ID of the IAM user.
- **username** indicates the username of the IAM user to be created.
- **email** indicates the email of the IAM user.
- **\*\*\*\*\*** indicates the password of the IAM user.

```
POST https://iam.myhuaweicloud.eu/v3.0/OS-USER/users
```

```
Content-Type: application/json
X-Sdk-Date: 20240416T095341Z
Authorization: SDK-HMAC-SHA256 Access=*****, SignedHeaders=content-type;host;x-sdk-date,
Signature=*****

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

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

## 3.2 Authentication

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

- 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": "xxxxxxx" //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 **ABCDEFGH....**, **X-Auth-Token: ABCDEFGH....** can be added to a request as follows:

```
POST https://iam.myhuaweicloud.eu/v3.0/OS-USER/users
Content-Type: application/json
X-Auth-Token: ABCDEFGH....
```

## 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 [creating an IAM user](#), 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 3-1** shows the response header for the API of [creating an IAM user](#).

**Figure 3-1** Header of the response to the request for creating an IAM user

```
"X-Frame-Options": "SAMEORIGIN",
"X-IAM-ETag-id": "2562365939-d8f6f12921974cb097338ac11fcec8a",
"Transfer-Encoding": "chunked",
"Strict-Transport-Security": "max-age=31536000; includeSubdomains;",
"Server": "api-gateway",
"X-Request-Id": "af2953f2bcc67a42325a69a19e6c32a2",
"X-Content-Type-Options": "nosniff",
"Connection": "keep-alive",
"X-Download-Options": "noopen",
"X-XSS-Protection": "1; mode=block;",
"X-IAM-Trace-Id": "token_ null_af2953f2bcc67a42325a69a19e6c32a2",
"Date": "Tue, 21 May 2024 09:03:40 GMT",
"Content-Type": "application/json; charset=utf8"
```

## (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.

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

If an error occurs during API calling, 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 RocketMQ 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

The endpoints of IAM and RocketMQ have been obtained. For details, see [Regions and Endpoints](#).

## Creating a RocketMQ Instance

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

```
{
  "name": "rocketmq-test",
  "engine": "reliability",
  "engine_version": "4.8.0",
  "storage_space": 600,
  "vpc_id": "ead6cxxxxx9ba91820e72c",
  "subnet_id": "3cb6axxxxxa7f671d6a8",
  "security_group_id": "d39c8xxxxxaa8510a498",
  "available_zones": [
    "effdcxxxxx2f56533"
  ],
  "product_id": "c6.4u8g.cluster",
  "storage_spec_code": "dms.physical.storage.high.v2",
  "broker_num": 1
}
```

- **name**: name of the instance.
- **engine**: message engine. The value is **reliability**.
- **engine\_version**: version of the message engine.
- **storage\_space**: message storage space in MB. For details about the value range, see [Creating a Pay-per-Use Instance](#).
- **vpc\_id**: ID of the Virtual Private Cloud (VPC) where the RocketMQ instance resides. Obtain the value by using the API described in [Creating a Pay-per-Use Instance](#).

- **subnet\_id**: ID of the VPC subnet. Obtain the value by using the API described in [Creating a Pay-per-Use Instance](#).
- **security\_group\_id**: ID of the security group. Obtain the value by using the API described in [Creating a Pay-per-Use 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. For details about the value range, see [Creating a Pay-per-Use Instance](#).
- **storage\_spec\_code**: storage I/O specification. For details about the value range, see [Creating a Pay-per-Use Instance](#).
- **broker\_num**: number of brokers.

# 5 APIs V2 (Recommended)

## 5.1 Lifecycle Management

### 5.1.1 Creating a Pay-per-Use Instance

#### Function

This API is used to create a pay-per-use instance.

#### URI

POST /v2/{project\_id}/instances

Table 5-1 Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                          |
|------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | <b>Definition</b><br>Project ID. For details about how to obtain it, see <a href="#">Obtaining a Project ID</a> .<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A |

## Request Parameters

**Table 5-2** Request body parameters

| Parameter      | Mandatory | Type    | Description                                                                                                                                                                                                                                                                                                      |
|----------------|-----------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| name           | Yes       | String  | Instance name.<br>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.<br>The description supports up to 1024 characters.<br><b>NOTE</b><br>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  | <b>Definition</b><br>Message engine type.<br><b>Range</b> <ul style="list-style-type: none"> <li><b>rocketmq</b>: RocketMQ message engine.</li> <li><b>reliability</b>: RocketMQ message engine alias.</li> </ul>                                                                                                |
| engine_version | Yes       | String  | Message engine version. Set this parameter to 4.8.05.x.                                                                                                                                                                                                                                                          |
| storage_space  | Yes       | Integer | <b>Definition</b><br>Storage space, in GB.<br><b>Range</b><br>Different instance specifications support different storage configurations.                                                                                                                                                                        |
| vpc_id         | Yes       | String  | VPC ID.<br>You can call the API for querying VPCs to obtain the VPC ID. The VPC ID is in the response body. For details, see <i>Virtual Private Cloud API Reference</i> .                                                                                                                                        |

| Parameter         | Mandatory | Type             | Description                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------|-----------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| subnet_id         | Yes       | String           | Subnet information.<br>You can call the API for querying subnets to obtain the subnet ID. The subnet ID is in the response body. For details, see <i>Virtual Private Cloud API Reference</i> .                                                                                                                                                                                                             |
| security_group_id | Yes       | String           | Security group to which the instance belongs.<br>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 <i>Virtual Private Cloud API Reference</i> .                                                                                                                                                           |
| 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 <a href="#">Querying AZ Information</a> .<br>The parameter value cannot be empty or null. Check whether resources exist in the AZs.<br>During RocketMQ instance creation, brokers can be deployed in one AZ or three or more AZs. To specify AZs for brokers, separate AZs with commas (,). |

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| product_id | Yes       | String | <p><b>Definition</b><br/>RocketMQ instance flavors.</p> <p><b>Constraints</b><br/>N/A</p> <p><b>Range</b></p> <ul style="list-style-type: none"> <li>• <b>c6.4u8g.cluster.small:</b> Max. 2,000 topics and 2,000 consumer groups per broker</li> <li>• <b>c6.4u8g.cluster:</b> Max. 4,000 topics and 4,000 consumer groups per broker</li> <li>• <b>c6.8u16g.cluster:</b> Max. 8,000 topics and 8,000 consumer groups per broker</li> <li>• <b>c6.12u24g.cluster:</b> Max. 12,000 topics and 12,000 consumer groups per broker</li> <li>• <b>c6.16u32g.cluster:</b> Max. 16,000 topics and 16,000 consumer groups per broker</li> <li>• <b>rocketmq.b1.large.1:</b> RocketMQ 5.x basic edition single-node flavor, instance TPS 500</li> <li>• <b>rocketmq.b2.large.4:</b> RocketMQ 5.x basic edition cluster flavor, instance TPS 2,000</li> <li>• <b>rocketmq.b2.large.8:</b> RocketMQ 5.x basic edition cluster flavor, instance TPS 4,000</li> <li>• <b>rocketmq.b2.large.12:</b> RocketMQ 5.x basic edition cluster flavor, instance TPS 6,000</li> <li>• <b>rocketmq.p1.large.1:</b> RocketMQ 5.x professional edition single-node flavor, instance TPS 500</li> <li>• <b>rocketmq.p2.large.8:</b> RocketMQ 5.x professional</li> </ul> |

| Parameter         | Mandatory | Type    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------|-----------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   |           |         | <p>edition cluster flavor,<br/>instance TPS 4,000</p> <ul style="list-style-type: none"> <li>• <b>rocketmq.p2.large.12:</b><br/>RocketMQ 5.x professional<br/>edition cluster flavor,<br/>instance TPS 6,000</li> <li>• <b>rocketmq.p2.large.20:</b><br/>RocketMQ 5.x professional<br/>edition cluster flavor,<br/>instance TPS 10,000</li> <li>• <b>rocketmq.p2.large.40:</b><br/>RocketMQ 5.x professional<br/>edition cluster flavor,<br/>instance TPS 20,000</li> <li>• <b>rocketmq.p2.large.100:</b><br/>RocketMQ 5.x professional<br/>edition cluster flavor,<br/>instance TPS 50,000</li> <li>• <b>rocketmq.p2.large.150:</b><br/>RocketMQ 5.x professional<br/>edition cluster flavor,<br/>instance TPS 75,000</li> <li>• <b>rocketmq.p2.large.200:</b><br/>RocketMQ 5.x professional<br/>edition cluster flavor,<br/>instance TPS 100,000</li> <li>• <b>rocketmq.p2.large.300:</b><br/>RocketMQ 5.x professional<br/>edition cluster flavor,<br/>instance TPS 150,000</li> </ul> <p><b>Default Value</b><br/>N/A</p> |
| ssl_enable        | No        | Boolean | <p>Whether to enable SSL<br/>encryption for access.</p> <ul style="list-style-type: none"> <li>• <b>true:</b> enable</li> <li>• <b>false:</b> disable</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| storage_spec_code | Yes       | String  | <p><b>Definition</b><br/>Storage I/O flavor.</p> <p><b>Range</b></p> <ul style="list-style-type: none"> <li>• <b>dms.physical.storage.high.v2:</b> high I/O disk</li> <li>• <b>dms.physical.storage.ultra.v2:</b> ultra-high I/O disk</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

| Parameter             | Mandatory | Type    | Description                                                                                                                                                                                                                      |
|-----------------------|-----------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| enterprise_project_id | No        | String  | Enterprise project ID. This parameter is mandatory for an enterprise project account.                                                                                                                                            |
| enable_acl            | No        | Boolean | <b>Definition</b><br>Whether to enable access control.<br><b>Constraints</b><br>N/A<br><b>Range</b> <ul style="list-style-type: none"> <li>• <b>true</b>: Yes</li> <li>• <b>false</b>: No</li> </ul> <b>Default Value</b><br>N/A |
| ipv6_enable           | No        | Boolean | Whether IPv6 is supported. <ul style="list-style-type: none"> <li>• <b>true</b>: Yes</li> <li>• <b>false</b>: No</li> </ul>                                                                                                      |
| proxy_enable          | No        | Boolean | Whether to enable the proxy function. <ul style="list-style-type: none"> <li>• <b>true</b>: Yes</li> <li>• <b>false</b>: No</li> </ul>                                                                                           |
| enable_publicip       | No        | Boolean | Whether to enable public access. By default, public access is disabled. <ul style="list-style-type: none"> <li>• <b>true</b>: enable</li> <li>• <b>false</b>: do not enable</li> </ul>                                           |
| disk_encrypted_enable | No        | Boolean | Whether disk encryption is enabled.                                                                                                                                                                                              |
| disk_encrypted_key    | No        | String  | Disk encryption key. The value is blank when disk encryption is disabled.                                                                                                                                                        |
| publicip_id           | No        | String  | ID of the EIP bound to the instance.<br>Use commas (,) to separate multiple EIP IDs.<br>This parameter is mandatory if public access is enabled (that is, <b>enable_publicip</b> is set to <b>true</b> ).                        |
| broker_num            | Yes       | Integer | Number of brokers.                                                                                                                                                                                                               |

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                                                                                               |
|-----------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| arch_type | No        | String | <b>Definition</b><br>Architecture type.<br><b>Constraints</b><br>N/A<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>X86</b>: complex instruction set compute.</li><li>• <b>ARM</b>: simplified instruction set compute.</li></ul> <b>Default Value</b><br>N/A |
| tls_mode  | No        | String | Security protocol used by the instance.                                                                                                                                                                                                                                   |

## Response Parameters

**Status code: 200**

**Table 5-3** Response body parameters

| Parameter   | Type   | Description  |
|-------------|--------|--------------|
| instance_id | String | Instance ID. |

## Example Requests

Creating a pay-per-use instance

POST https://{endpoint}/v2/{project\_id}/instances

```
{
  "name" : "reliability-1751840557",
  "description" : "",
  "engine" : "reliability",
  "engine_version" : "4.8.0",
  "storage_space" : 600,
  "vpc_id" : "3db8490c-4d6d-4d8f-8d3f-047b0de4c5cf",
  "subnet_id" : "0a0f1fcb-f019-458d-b9e5-301867394d50",
  "security_group_id" : "23c5977f-ff33-4b95-a73e-08d8a0bc4e6c",
  "available_zones" : [ "9f1c5806706d4c1fb0eb72f0a9b18c77" ],
  "product_id" : "c6.4u8g.cluster",
  "enterprise_project_id" : "0",
  "ssl_enable" : false,
  "storage_spec_code" : "dms.physical.storage.ultra.v2",
  "ipv6_enable" : false,
  "enable_publicip" : false,
  "publicip_id" : "",
  "broker_num" : 1
}
```

## 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 Querying the Instance List

### Function

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

### URI

GET /v2/{project\_id}/instances

**Table 5-4** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                          |
|------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | <b>Definition</b><br>Project ID. For details about how to obtain it, see <a href="#">Obtaining a Project ID</a> .<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A |

Table 5-5 Query Parameters

| Parameter   | Mandatory | Type   | Description                                                                                                                                                                                                                                                 |
|-------------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| engine      | Yes       | String | <b>Definition</b><br>Message engine type.<br><b>Constraints</b><br>N/A<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>rocketmq</b>: RocketMQ engine.</li><li>• <b>reliability</b>: RocketMQ engine alias.</li></ul> <b>Default Value</b><br>N/A |
| name        | No        | String | <b>Definition</b><br>Instance name.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default value</b><br>N/A                                                                                                                                      |
| instance_id | No        | String | <b>Definition</b><br>Instance ID. You can call the API for querying all instances to obtain the instance ID. The instance ID is in the response body.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A                    |

| Parameter        | Mandatory | Type   | Description                                                                                                                                                                                                                                                                   |
|------------------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| status           | No        | String | <b>Definition</b><br>Instance status.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>For details, see <a href="#">Instance Status</a> .<br><b>Default Value</b><br>N/A                                                                                                       |
| include_failure  | No        | String | <b>Definition</b><br>Whether to return the number of instances that fail to be created.<br><b>Constraints</b><br>N/A<br><b>Range</b> <ul style="list-style-type: none"> <li>• 'true': yes</li> <li>• 'false': no</li> </ul> <b>Default value</b><br>N/A                       |
| exact_match_name | No        | String | <b>Definition</b><br>Whether to search for the instance that precisely matches a specified instance name.<br><b>Constraints</b><br>N/A<br><b>Range</b> <ul style="list-style-type: none"> <li>• 'true': yes</li> <li>• 'false': no</li> </ul> <b>Default value</b><br>'false' |

| Parameter             | Mandatory | Type    | Description                                                                                                                                                          |
|-----------------------|-----------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| enterprise_project_id | No        | String  | <b>Definition</b><br>Enterprise project ID.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default value</b><br>N/A                                       |
| limit                 | No        | Integer | <b>Definition</b><br>Maximum number of instances that can be returned in a query.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>1–50<br><b>Default value</b><br>10 |
| offset                | No        | Integer | <b>Definition</b><br>Offset where the query starts.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>≥ 0<br><b>Default value</b><br>N/A                               |

Request Parameters

None

Response Parameters

Status code: 200

**Table 5-6** Response body parameters

| Parameter    | Type                                            | Description                                                      |
|--------------|-------------------------------------------------|------------------------------------------------------------------|
| instances    | Array of <a href="#">InstanceDetail</a> objects | <b>Definition</b><br>Instance list.<br><b>Range</b><br>N/A       |
| instance_num | Integer                                         | <b>Definition</b><br>Number of instances.<br><b>Range</b><br>N/A |

**Table 5-7** InstanceDetail

| Parameter   | Type   | Description                                                                                                                                                                                                   |
|-------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| name        | String | <b>Definition</b><br>Instance name.<br><b>Range</b><br>N/A                                                                                                                                                    |
| engine      | String | <b>Definition</b><br>Message engine.<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>rocketmq</b>: RocketMQ message engine.</li><li>• <b>reliability</b>: RocketMQ message engine alias.</li></ul> |
| status      | String | <b>Definition</b><br>Status.<br><b>Range</b><br>For details, see <a href="#">Instance Status</a> .                                                                                                            |
| description | String | <b>Definition</b><br>Message description.<br><b>Range</b><br>N/A                                                                                                                                              |

| Parameter      | Type    | Description                                                                                                                                                                                                                                                                                                                                                                          |
|----------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| type           | String  | <b>Definition</b><br>Instance type.<br><b>Range</b> <ul style="list-style-type: none"> <li>• <b>single</b>: 4.8.0 single-node.</li> <li>• <b>cluster</b>: 4.8.0 cluster</li> <li>• <b>single.basic</b>: 5.x single-node basic edition</li> <li>• <b>cluster.basic</b>: 5.x cluster basic edition</li> <li>• <b>cluster.professional</b>: 5.x cluster professional edition</li> </ul> |
| specification  | String  | <b>Definition</b><br>Instance specification.<br><b>Range</b><br>N/A                                                                                                                                                                                                                                                                                                                  |
| engine_version | String  | <b>Definition</b><br>Instance version.<br><b>Range</b> <ul style="list-style-type: none"> <li>• <b>4.8.0</b></li> <li>• <b>5.x</b></li> </ul>                                                                                                                                                                                                                                        |
| instance_id    | String  | <b>Definition</b><br>Instance ID.<br><b>Range</b><br>N/A                                                                                                                                                                                                                                                                                                                             |
| arch_type      | String  | <b>Definition</b><br>Architecture type.<br><b>Range</b> <ul style="list-style-type: none"> <li>• <b>X86</b></li> <li>• <b>ARM</b></li> </ul>                                                                                                                                                                                                                                         |
| charging_mode  | Integer | <b>Definition</b><br>Billing mode.<br><b>Range</b><br>1: pay-per-use; 0: yearly/monthly.                                                                                                                                                                                                                                                                                             |
| vpc_id         | String  | <b>Definition</b><br>VPC ID.<br><b>Range</b><br>N/A                                                                                                                                                                                                                                                                                                                                  |

| Parameter  | Type   | Description                                                                                                                                                                                                  |
|------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| vpc_name   | String | <b>Definition</b><br>VPC name.<br><b>Range</b><br>N/A                                                                                                                                                        |
| created_at | String | <b>Definition</b><br>Time when creation is complete.<br>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.<br><b>Range:</b><br>N/A |

| Parameter  | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| product_id | String | <p><b>Definition</b><br/>Product flavor.</p> <p><b>Range</b></p> <ul style="list-style-type: none"> <li>• <b>c6.4u8g.cluster.small</b>: Max. 2,000 topics and 2,000 consumer groups per broker</li> <li>• <b>c6.4u8g.cluster</b>: Max. 4,000 topics and 4,000 consumer groups per broker</li> <li>• <b>c6.8u16g.cluster</b>: Max. 8,000 topics and 8,000 consumer groups per broker</li> <li>• <b>c6.12u24g.cluster</b>: Max. 12,000 topics and 12,000 consumer groups per broker</li> <li>• <b>c6.16u32g.cluster</b>: Max. 16,000 topics and 16,000 consumer groups per broker</li> <li>• <b>rocketmq.b1.large.1</b>: RocketMQ 5.x basic edition single-node flavor, instance TPS 500</li> <li>• <b>rocketmq.b2.large.4</b>: RocketMQ 5.x basic edition cluster flavor, instance TPS 2,000</li> <li>• <b>rocketmq.b2.large.8</b>: RocketMQ 5.x basic edition cluster flavor, instance TPS 4,000</li> <li>• <b>rocketmq.b2.large.12</b>: RocketMQ 5.x basic edition cluster flavor, instance TPS 6,000</li> <li>• <b>rocketmq.p1.large.1</b>: RocketMQ 5.x professional edition single-node flavor, instance TPS 500</li> <li>• <b>rocketmq.p2.large.8</b>: RocketMQ 5.x professional edition cluster flavor, instance TPS 4,000</li> <li>• <b>rocketmq.p2.large.12</b>: RocketMQ 5.x professional edition cluster flavor, instance TPS 6,000</li> <li>• <b>rocketmq.p2.large.20</b>: RocketMQ 5.x professional edition cluster flavor, instance TPS 10,000</li> <li>• <b>rocketmq.p2.large.40</b>: RocketMQ 5.x professional edition cluster flavor, instance TPS 20,000</li> </ul> |

| Parameter            | Type             | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      |                  | <ul style="list-style-type: none"> <li><b>rocketmq.p2.large.100:</b> RocketMQ 5.x professional edition cluster flavor, instance TPS 50,000</li> <li><b>rocketmq.p2.large.150:</b> RocketMQ 5.x professional edition cluster flavor, instance TPS 75,000</li> <li><b>rocketmq.p2.large.200:</b> RocketMQ 5.x professional edition cluster flavor, instance TPS 100,000</li> <li><b>rocketmq.p2.large.300:</b> RocketMQ 5.x professional edition cluster flavor, instance TPS 150,000</li> </ul> |
| security_group_id    | String           | <b>Definition</b><br>Security group ID.<br><b>Range</b><br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| security_group_name  | String           | <b>Definition</b><br>Security group name.<br><b>Range</b><br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                               |
| subnet_id            | String           | <b>Definition</b><br>Subnet ID.<br><b>Range</b><br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| subnet_cidr          | String           | <b>Definition</b><br>Subnet route.<br><b>Range</b><br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| available_zones      | Array of strings | <b>Definition</b><br>List of AZ IDs.<br><b>Value range:</b><br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                             |
| available_zone_names | Array of strings | <b>Definition</b><br>List of AZ names.                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| user_id              | String           | <b>Definition</b><br>User ID.<br><b>Range</b><br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                                           |

| Parameter             | Type    | Description                                                                                                                                                              |
|-----------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| user_name             | String  | <b>Definition</b><br>Username.<br><b>Range</b><br>N/A                                                                                                                    |
| maintain_begin        | String  | <b>Definition</b><br>Time at which the maintenance window starts. The format is <i>HH:mm:ss</i> .<br><b>Range</b><br>N/A                                                 |
| maintain_end          | String  | <b>Definition</b><br>Time at which the maintenance window ends. The format is <i>HH:mm:ss</i> .<br><b>Range</b><br>N/A                                                   |
| enable_log_collection | Boolean | <b>Definition</b><br>Whether log collection is enabled.<br><b>Range</b> <ul style="list-style-type: none"> <li>• <b>true</b>: yes</li> <li>• <b>false</b>: no</li> </ul> |
| storage_space         | Integer | <b>Definition</b><br>Storage space, in GB.<br><b>Range</b><br>Different instance specifications support different storage configurations.                                |
| used_storage_space    | Integer | <b>Definition</b><br>Used message storage space, in GB.<br><b>Range</b><br>N/A                                                                                           |
| enable_publicip       | Boolean | <b>Definition</b><br>Whether to enable public access.<br><b>Range</b> <ul style="list-style-type: none"> <li>• <b>true</b>: yes</li> <li>• <b>false</b>: no</li> </ul>   |

| Parameter           | Type    | Description                                                                                                                                                                                                                                           |
|---------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| publicip_id         | String  | <b>Definition</b><br>ID of the EIP bound to the instance.<br>Use commas (,) to separate multiple EIP IDs.<br>This parameter is mandatory if public access is enabled (that is, <b>enable_publicip</b> is set to <b>true</b> ).<br><b>Range</b><br>N/A |
| publicip_address    | String  | <b>Definition</b><br>Public IP address.<br><b>Range</b><br>N/A                                                                                                                                                                                        |
| ssl_enable          | Boolean | <b>Definition</b><br>Whether SSL is enabled.<br><b>Range</b> <ul style="list-style-type: none"> <li>• <b>true</b>: yes</li> <li>• <b>false</b>: no</li> </ul>                                                                                         |
| cross_vpc_info      | String  | <b>Definition</b><br>Cross-VPC access information.<br><b>Range</b><br>N/A                                                                                                                                                                             |
| storage_resource_id | String  | <b>Definition</b><br>Storage resource ID.<br><b>Range</b><br>N/A                                                                                                                                                                                      |
| storage_spec_code   | String  | <b>Definition</b><br>Storage specification code.<br><b>Range</b> <ul style="list-style-type: none"> <li>• <b>dms.physical.storage.high.v2</b>: high I/O disk</li> <li>• <b>dms.physical.storage.ultra.v2</b>: ultra-high I/O disk</li> </ul>          |
| service_type        | String  | <b>Definition</b><br>Service type.<br><b>Range</b> <ul style="list-style-type: none"> <li>• <b>advanced</b>: Service type.</li> </ul>                                                                                                                 |

| Parameter        | Type    | Description                                                                                                                                                               |
|------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| storage_type     | String  | <b>Definition</b><br>Storage type.<br><b>Range</b> <ul style="list-style-type: none"> <li>• <b>hec</b>: Storage type.</li> </ul>                                          |
| extend_times     | Long    | <b>Definition</b><br>Extension time.<br><b>Range</b><br>N/A                                                                                                               |
| ipv6_enable      | Boolean | <b>Definition</b><br>Whether IPv6 is enabled.<br><b>Range</b> <ul style="list-style-type: none"> <li>• <b>true</b>: Yes</li> <li>• <b>false</b>: No</li> </ul>            |
| support_features | String  | <b>Definition</b><br>Features supported by the instance.<br><b>Range</b><br>N/A                                                                                           |
| disk_encrypted   | Boolean | <b>Definition</b><br>Whether disk encryption is enabled.<br><b>Range</b> <ul style="list-style-type: none"> <li>• <b>true</b>: yes</li> <li>• <b>false</b>: no</li> </ul> |
| ces_version      | String  | <b>Definition</b><br>Cloud Eye version.<br><b>Range</b><br>N/A                                                                                                            |
| node_num         | Integer | <b>Definition</b><br>Number of nodes. (This field is available only for RocketMQ 4.8.0 instances.)<br><b>Range</b><br>N/A                                                 |

| Parameter               | Type    | Description                                                                                                                                                                                   |
|-------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| new_spec_billing_enable | Boolean | <b>Definition</b><br>Whether billing based on new specifications is enabled.<br><b>Range</b> <ul style="list-style-type: none"> <li>• <b>true</b>: yes</li> <li>• <b>false</b>: no</li> </ul> |
| enable_acl              | Boolean | <b>Definition</b><br>Whether access control is enabled.<br><b>Range</b> <ul style="list-style-type: none"> <li>• <b>true</b>: yes</li> <li>• <b>false</b>: no</li> </ul>                      |
| broker_num              | Integer | <b>Definition</b><br>Number of brokers.<br><b>Range</b><br>N/A                                                                                                                                |
| dns_enable              | Boolean | <b>Definition</b><br>Whether to enable domain name access to an instance.<br><b>Range</b> <ul style="list-style-type: none"> <li>• <b>true</b>: yes</li> <li>• <b>false</b>: no</li> </ul>    |
| namesrv_address         | String  | <b>Definition</b><br>Metadata address.<br><b>Range</b><br>N/A                                                                                                                                 |
| namesrv_domain_name     | String  | <b>Definition</b><br>Metadata domain name.<br><b>Range</b><br>N/A                                                                                                                             |
| broker_address          | String  | <b>Definition</b><br>Service data address.<br><b>Range</b><br>N/A                                                                                                                             |
| public_namesrv_address  | String  | <b>Definition</b><br>Public network metadata address.<br><b>Range</b><br>N/A                                                                                                                  |

| Parameter                  | Type                              | Description                                                                                                   |
|----------------------------|-----------------------------------|---------------------------------------------------------------------------------------------------------------|
| public_namesrv_domain_name | String                            | <b>Definition</b><br>Public metadata domain name.<br><b>Range</b><br>N/A                                      |
| public_broker_address      | String                            | <b>Definition</b><br>Public network service data address.<br><b>Range</b><br>N/A                              |
| grpc_address               | String                            | <b>Definition</b><br>gRPC connection address (displayed only for RocketMQ 5.x).<br><b>Range</b><br>N/A        |
| grpc_domain_name           | String                            | <b>Definition</b><br>gRPC connection domain name (displayed only for RocketMQ 5.x).<br><b>Range</b><br>N/A    |
| public_grpc_address        | String                            | <b>Definition</b><br>Public gRPC connection address (displayed only for RocketMQ 5.x).<br><b>Range</b><br>N/A |
| public_grpc_domain_name    | String                            | <b>Definition</b><br>Public gRPC domain name (displayed only for RocketMQ 5.x).<br><b>Range</b><br>N/A        |
| enterprise_project_id      | String                            | <b>Definition</b><br>Enterprise project ID.<br><b>Range</b><br>N/A                                            |
| tags                       | Array of <b>TagEntity</b> objects | <b>Definition</b><br>Tag list.<br><b>Range</b><br>N/A                                                         |

| Parameter                       | Type    | Description                                                                                                                                                                            |
|---------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| total_storage_space             | Integer | <b>Definition</b><br>Total storage space.<br><b>Range</b><br>N/A                                                                                                                       |
| resource_spec_code              | String  | <b>Definition</b><br>Resource flavor.<br><b>Range</b><br>N/A                                                                                                                           |
| produce_portion                 | Integer | <b>Definition</b><br>Production TPS proportion.<br><b>Range</b><br>N/A                                                                                                                 |
| consume_portion                 | Integer | <b>Definition</b><br>Consumption TPS proportion.<br><b>Range</b><br>N/A                                                                                                                |
| dr_enable                       | Boolean | <b>Definition</b><br>Whether the instance has disaster recovery (DR).<br><b>Range</b> <ul style="list-style-type: none"> <li>• <b>true</b>: Yes</li> <li>• <b>false</b>: No</li> </ul> |
| quota_address                   | String  | <b>Definition</b><br>Quota address.<br><b>Range</b><br>N/A                                                                                                                             |
| max_msg_process_tps             | Integer | <b>Definition</b><br>Maximum message TPS.<br><b>Range</b><br>N/A                                                                                                                       |
| config_ssl_need_restart_process | Boolean | <b>Definition</b><br>Whether a restart is required to configure SSL.<br><b>Range</b> <ul style="list-style-type: none"> <li>• <b>true</b>: Yes</li> <li>• <b>false</b>: No</li> </ul>  |

| Parameter | Type   | Description                                                                         |
|-----------|--------|-------------------------------------------------------------------------------------|
| tls_mode  | String | <b>Definition</b><br>Security protocol used by the instance.<br><b>Range</b><br>N/A |

**Table 5-8** TagEntity

| Parameter | Type   | Description                                                                                                                                                                                                                                                                                       |
|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| key       | String | Tag key. <ul style="list-style-type: none"><li>• Must be specified.</li><li>• Must be unique for the same instance.</li><li>• Can contain 1 to 128 characters.</li><li>• Can contain letters, digits, spaces, and special characters _.:=-@</li><li>• Cannot start or end with a space.</li></ul> |
| value     | String | Tag value. <ul style="list-style-type: none"><li>• Can contain 0 to 255 characters.</li><li>• Can contain letters, digits, spaces, and special characters _.:=-@</li><li>• Cannot start or end with a space.</li></ul>                                                                            |

## Example Requests

Querying the list of all instances

```
GET https://{endpoint}/v2/{project_id}/instances?engine=reliability
```

## Example Responses

**Status code: 200**

Instance list queried successfully.

```
{
  "instances": [ {
    "name": "reliability-ztest",
    "engine": "reliability",
    "status": "RUNNING",
    "description": "",
    "type": "cluster",
    "specification": "c6.4u8g.cluster * 1 broker",
    "engine_version": "4.8.0",
    "instance_id": "68fdc9a8-805e-439d-8dd9-25adc1c58bf6",
    "resource_spec_code": "",
    "charging_mode": 1,
    "vpc_id": "3db8490c-4d6d-4d8f-8d3f-047b0de4c5cf",
```

```
"vpc_name" : "vpc-1101840",
"created_at" : "1636699753874",
"product_id" : "c6.4u8g.cluster",
"security_group_id" : "23c5977f-ff33-4b95-a73e-08d8a0bc4e6c",
"security_group_name" : "Sys-default",
"subnet_id" : "0a0f1fcb-f019-458d-b9e5-301867394d50",
"subnet_cidr" : "192.168.0.0/24",
"available_zones" : [ "9f1c5806706d4c1fb0eb72f0a9b18c77" ],
"available_zone_names" : [ "AZ3" ],
"user_id" : "0b01fbb53600d4671fa8c00673c71260",
"user_name" : "",
"maintain_begin" : "02:00:00",
"maintain_end" : "06:00:00",
"enable_log_collection" : false,
"storage_space" : 558,
"total_storage_space" : 600,
"used_storage_space" : 28,
"enable_publicip" : false,
"ssl_enable" : false,
"arch_type" : "X86",
"cross_vpc_info" : "{ \"192.168.1.21\" : { \"advertised_ip\" : \"192.168.1.21\", \"broker_port\" : \"-\", \"port_id\" : \"fa020857-d899-497c-a5f8-8dd90ed67ff7\", \"namesrv_port\" : \"8301\" }, \"192.168.1.246\" : { \"advertised_ip\" : \"192.168.1.246\", \"broker_port\" : \"10100\", \"port_id\" : \"c0f0586f-a4ee-41b5-a7f1-b4e554bbf12d\", \"namesrv_port\" : \"-\", \"192.168.1.77\" : { \"advertised_ip\" : \"192.168.1.77\", \"broker_port\" : \"10101\", \"port_id\" : \"8eb1d144-4315-402f-8498-37c9a10b630c\", \"namesrv_port\" : \"-\", \"192.168.1.159\" : { \"advertised_ip\" : \"192.168.1.159\", \"broker_port\" : \"-\", \"port_id\" : \"d35b22af-a202-4329-bda4-26e1bdf2aa8e\", \"namesrv_port\" : \"8300\" }, \"192.168.1.14\" : { \"advertised_ip\" : \"192.168.1.14\", \"broker_port\" : \"10102\", \"port_id\" : \"5fcb50fd-3af5-4123-a455-a67f1b926026\", \"namesrv_port\" : \"-\" } } } }\",
"storage_resource_id" : "164bdaef-2e67-4fd5-be8b-a18f91d455a2",
"storage_spec_code" : "dms.physical.storage.ultra.v2",
"service_type" : "advanced",
"storage_type" : "hec",
"enterprise_project_id" : "0",
"extend_times" : 0,
"ipv6_enable" : false,
"support_features" : "features.log.collection",
"disk_encrypted" : false,
"enable_acl" : true,
"ces_version" : "linux,v1,v2",
"node_num" : 5,
"new_spec_billing_enable" : true,
"broker_num" : 1,
"dr_enable" : false,
"namesrv_address" : "****",
"config_ssl_need_restart_process" : false,
"broker_address" : "****",
"public_namesrv_address" : "****",
"public_broker_address" : "****",
"grpc_address" : "****",
"public_grpc_address" : "****"
} ],
"instance_num" : 1
}
```

## Status Codes

| Status Code | Description                         |
|-------------|-------------------------------------|
| 200         | Instance list queried successfully. |

## 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 5-9** Path Parameters

| Parameter   | Mandatory | Type   | Description                                                                                                                                                                                                                              |
|-------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id  | Yes       | String | <b>Definition</b><br>Project ID. For details about how to obtain it, see <a href="#">Obtaining a Project ID</a> .<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A                                     |
| instance_id | Yes       | String | <b>Definition</b><br>Instance ID. You can call the API for querying all instances to obtain the instance ID. The instance ID is in the response body.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A |

#### Request Parameters

None

#### Response Parameters

**Status code: 200**

**Table 5-10** Response body parameters

| Parameter     | Type   | Description                                                                                                                                                                                                                                                                                                                                                                     |
|---------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| name          | String | <b>Definition</b><br>Instance name.<br><b>Range</b><br>N/A                                                                                                                                                                                                                                                                                                                      |
| engine        | String | <b>Definition</b><br>Message engine type.<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>rocketmq</b>: RocketMQ message engine.</li><li>• <b>reliability</b>: RocketMQ message engine alias.</li></ul>                                                                                                                                                              |
| status        | String | <b>Definition</b><br>Status.<br><b>Range</b><br>For details, see <a href="#">Instance Status</a> .                                                                                                                                                                                                                                                                              |
| description   | String | <b>Definition</b><br>Message description.<br><b>Range</b><br>N/A                                                                                                                                                                                                                                                                                                                |
| type          | String | <b>Definition</b><br>Instance type.<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>single</b>: 4.8.0 single-node.</li><li>• <b>cluster</b>: 4.8.0 cluster</li><li>• <b>single.basic</b>: 5.x single-node basic edition.</li><li>• <b>cluster.basic</b>: 5.x cluster basic edition</li><li>• <b>cluster.professional</b>: 5.x cluster professional edition</li></ul> |
| specification | String | <b>Definition</b><br>Instance specification.<br><b>Range</b><br>N/A                                                                                                                                                                                                                                                                                                             |

| Parameter      | Type    | Description                                                                                                                                                                                                 |
|----------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| engine_version | String  | <b>Definition</b><br>Instance version.<br><b>Range</b> <ul style="list-style-type: none"> <li>4.8.0</li> <li>5.x</li> </ul>                                                                                 |
| instance_id    | String  | <b>Definition</b><br>Instance ID.<br><b>Range</b><br>N/A                                                                                                                                                    |
| charging_mode  | Integer | <b>Definition</b><br>Billing mode.<br><b>Range</b><br>1: pay-per-use; 0: yearly/monthly.                                                                                                                    |
| vpc_id         | String  | <b>Definition</b><br>VPC ID.<br><b>Range</b><br>N/A                                                                                                                                                         |
| vpc_name       | String  | <b>Definition</b><br>VPC name.<br><b>Range</b><br>N/A                                                                                                                                                       |
| created_at     | String  | <b>Definition</b><br>Time when creation is complete.<br>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.<br><b>Range</b><br>N/A |

| Parameter  | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| product_id | String | <p><b>Definition</b><br/>RocketMQ instance flavors.</p> <p><b>Range</b></p> <ul style="list-style-type: none"> <li>• <b>c6.4u8g.cluster.small</b>: Max. 2,000 topics and 2,000 consumer groups per broker</li> <li>• <b>c6.4u8g.cluster</b>: Max. 4,000 topics and 4,000 consumer groups per broker</li> <li>• <b>c6.8u16g.cluster</b>: Max. 8,000 topics and 8,000 consumer groups per broker</li> <li>• <b>c6.12u24g.cluster</b>: Max. 12,000 topics and 12,000 consumer groups per broker</li> <li>• <b>c6.16u32g.cluster</b>: Max. 16,000 topics and 16,000 consumer groups per broker</li> <li>• <b>rocketmq.b1.large.1</b>: RocketMQ 5.x basic edition single-node flavor, instance TPS 500</li> <li>• <b>rocketmq.b2.large.4</b>: RocketMQ 5.x basic edition cluster flavor, instance TPS 2,000</li> <li>• <b>rocketmq.b2.large.8</b>: RocketMQ 5.x basic edition cluster flavor, instance TPS 4,000</li> <li>• <b>rocketmq.b2.large.12</b>: RocketMQ 5.x basic edition cluster flavor, instance TPS 6,000</li> <li>• <b>rocketmq.p1.large.1</b>: RocketMQ 5.x professional edition single-node flavor, instance TPS 500</li> <li>• <b>rocketmq.p2.large.8</b>: RocketMQ 5.x professional edition cluster flavor, instance TPS 4,000</li> <li>• <b>rocketmq.p2.large.12</b>: RocketMQ 5.x professional edition cluster flavor, instance TPS 6,000</li> <li>• <b>rocketmq.p2.large.20</b>: RocketMQ 5.x professional edition cluster flavor, instance TPS 10,000</li> <li>• <b>rocketmq.p2.large.40</b>: RocketMQ 5.x professional edition cluster flavor, instance TPS 20,000</li> </ul> |

| Parameter            | Type             | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      |                  | <ul style="list-style-type: none"> <li><b>rocketmq.p2.large.100:</b> RocketMQ 5.x professional edition cluster flavor, instance TPS 50,000</li> <li><b>rocketmq.p2.large.150:</b> RocketMQ 5.x professional edition cluster flavor, instance TPS 75,000</li> <li><b>rocketmq.p2.large.200:</b> RocketMQ 5.x professional edition cluster flavor, instance TPS 100,000</li> <li><b>rocketmq.p2.large.300:</b> RocketMQ 5.x professional edition cluster flavor, instance TPS 150,000</li> </ul> |
| security_group_id    | String           | <b>Definition</b><br>Security group ID.<br><b>Range</b><br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| security_group_name  | String           | <b>Definition</b><br>Security group name.<br><b>Range</b><br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                               |
| subnet_id            | String           | <b>Definition</b><br>Subnet ID.<br><b>Range</b><br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| subnet_name          | String           | <b>Definition</b><br>Subnet name.<br><b>Range</b><br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| subnet_cidr          | String           | <b>Definition</b><br>Subnet route<br><b>Range</b><br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| available_zones      | Array of strings | <b>Definition</b><br>List of AZ IDs.<br><b>Range</b><br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| available_zone_names | Array of strings | <b>Definition</b><br>List of AZ names.                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

| Parameter             | Type    | Description                                                                                                                                                                 |
|-----------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| user_id               | String  | <b>Definition</b><br>User ID.<br><b>Range</b><br>N/A                                                                                                                        |
| user_name             | String  | <b>Definition</b><br>Username.<br><b>Range</b><br>N/A                                                                                                                       |
| maintain_begin        | String  | <b>Definition</b><br>Time at which the maintenance window starts. The format is <i>HH:mm:ss</i> .<br><b>Range</b><br>N/A                                                    |
| maintain_end          | String  | <b>Definition</b><br>Time at which the maintenance window ends. The format is <i>HH:mm:ss</i> .<br><b>Range</b><br>N/A                                                      |
| enable_log_collection | Boolean | <b>Definition</b><br>Whether log collection is enabled.<br><b>Range</b><br><ul style="list-style-type: none"> <li>• <b>true</b>: yes</li> <li>• <b>false</b>: no</li> </ul> |
| storage_space         | Integer | <b>Definition</b><br>Storage space, in GB.<br><b>Range</b><br>Different instance specifications support different storage configurations.                                   |
| used_storage_space    | Integer | <b>Definition</b><br>Used message storage space, in GB.<br><b>Range</b><br>N/A                                                                                              |

| Parameter           | Type    | Description                                                                                                                                                                                                                                           |
|---------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| enable_publicip     | Boolean | <b>Definition</b><br>Whether to enable public access.<br><b>Range</b> <ul style="list-style-type: none"> <li>• <b>true</b>: yes</li> <li>• <b>false</b>: no</li> </ul>                                                                                |
| publicip_id         | String  | <b>Definition</b><br>ID of the EIP bound to the instance.<br>Use commas (,) to separate multiple EIP IDs.<br>This parameter is mandatory if public access is enabled (that is, <b>enable_publicip</b> is set to <b>true</b> ).<br><b>Range</b><br>N/A |
| publicip_address    | String  | <b>Definition</b><br>Public IP address.<br><b>Range</b><br>N/A                                                                                                                                                                                        |
| ssl_enable          | Boolean | <b>Definition</b><br>Whether SSL is enabled.<br><b>Range</b> <ul style="list-style-type: none"> <li>• <b>true</b>: yes</li> <li>• <b>false</b>: no</li> </ul>                                                                                         |
| cross_vpc_info      | String  | <b>Definition</b><br>Cross-VPC access information.<br><b>Range</b><br>N/A                                                                                                                                                                             |
| storage_resource_id | String  | <b>Definition</b><br>Storage resource ID.<br><b>Range</b><br>N/A                                                                                                                                                                                      |
| storage_spec_code   | String  | <b>Definition</b><br>Storage specification code.<br><b>Range</b> <ul style="list-style-type: none"> <li>• <b>dms.physical.storage.high.v2</b>: high I/O disk</li> <li>• <b>dms.physical.storage.ultra.v2</b>: ultra-high I/O disk</li> </ul>          |

| Parameter        | Type    | Description                                                                                                                                                               |
|------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| service_type     | String  | <b>Definition</b><br>Service type.<br><b>Range</b> <ul style="list-style-type: none"> <li>• <b>advanced</b>: Service type.</li> </ul>                                     |
| storage_type     | String  | <b>Definition</b><br>Storage type.<br><b>Range</b> <ul style="list-style-type: none"> <li>• <b>hec</b>: Storage type.</li> </ul>                                          |
| extend_times     | Long    | <b>Definition</b><br>Extension time.<br><b>Range</b><br>N/A                                                                                                               |
| ipv6_enable      | Boolean | <b>Definition</b><br>Whether IPv6 is enabled.<br><b>Range</b> <ul style="list-style-type: none"> <li>• <b>true</b>: yes</li> <li>• <b>false</b>: no</li> </ul>            |
| support_features | String  | <b>Definition</b><br>Features supported by the instance.<br><b>Range</b><br>N/A                                                                                           |
| disk_encrypted   | Boolean | <b>Definition</b><br>Whether disk encryption is enabled.<br><b>Range</b> <ul style="list-style-type: none"> <li>• <b>true</b>: yes</li> <li>• <b>false</b>: no</li> </ul> |
| ces_version      | String  | <b>Definition</b><br>Cloud Eye version.<br><b>Range</b><br>N/A                                                                                                            |
| node_num         | Integer | <b>Definition</b><br>Number of nodes. (This field is available only for RocketMQ 4.8.0 instances.)<br><b>Range</b><br>N/A                                                 |

| Parameter               | Type    | Description                                                                                                                                                                                   |
|-------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| new_spec_billing_enable | Boolean | <b>Definition</b><br>Whether billing based on new specifications is enabled.<br><b>Range</b> <ul style="list-style-type: none"> <li>• <b>true</b>: yes</li> <li>• <b>false</b>: no</li> </ul> |
| enable_acl              | Boolean | <b>Definition</b><br>Whether access control is enabled.<br><b>Range</b> <ul style="list-style-type: none"> <li>• <b>true</b>: yes</li> <li>• <b>false</b>: no</li> </ul>                      |
| broker_num              | Integer | <b>Definition</b><br>Number of brokers.<br><b>Range</b><br>N/A                                                                                                                                |
| dns_enable              | Boolean | <b>Definition</b><br>Whether to enable domain name access to an instance.<br><b>Range</b> <ul style="list-style-type: none"> <li>• <b>true</b>: yes</li> <li>• <b>false</b>: no</li> </ul>    |
| namesrv_address         | String  | <b>Definition</b><br>Metadata address.<br><b>Range</b><br>N/A                                                                                                                                 |
| namesrv_domain_name     | String  | <b>Definition</b><br>Metadata domain name.<br><b>Range</b><br>N/A                                                                                                                             |
| broker_address          | String  | <b>Definition</b><br>Service data address.<br><b>Range</b><br>N/A                                                                                                                             |
| public_namesrv_address  | String  | <b>Definition</b><br>Public network metadata address.<br><b>Range</b><br>N/A                                                                                                                  |

| Parameter                  | Type                              | Description                                                                                                   |
|----------------------------|-----------------------------------|---------------------------------------------------------------------------------------------------------------|
| public_namesrv_domain_name | String                            | <b>Definition</b><br>Public metadata domain name.<br><b>Range</b><br>N/A                                      |
| public_broker_address      | String                            | <b>Definition</b><br>Public network service data address.<br><b>Range</b><br>N/A                              |
| grpc_address               | String                            | <b>Definition</b><br>gRPC connection address (displayed only for RocketMQ 5.x).<br><b>Range</b><br>N/A        |
| grpc_domain_name           | String                            | <b>Definition</b><br>gRPC connection domain name (displayed only for RocketMQ 5.x).<br><b>Range</b><br>N/A    |
| public_grpc_address        | String                            | <b>Definition</b><br>Public gRPC connection address (displayed only for RocketMQ 5.x).<br><b>Range</b><br>N/A |
| public_grpc_domain_name    | String                            | <b>Definition</b><br>Public gRPC domain name (displayed only for RocketMQ 5.x).<br><b>Range</b><br>N/A        |
| enterprise_project_id      | String                            | <b>Definition</b><br>Enterprise project ID.<br><b>Range</b><br>N/A                                            |
| tags                       | Array of <b>TagEntity</b> objects | <b>Definition</b><br>Tag list.<br><b>Range</b><br>N/A                                                         |

| Parameter                       | Type    | Description                                                                                                                                                                            |
|---------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| total_storage_space             | Integer | <b>Definition</b><br>Total storage space.<br><b>Range</b><br>N/A                                                                                                                       |
| resource_spec_code              | String  | <b>Definition</b><br>Resource flavor.<br><b>Range</b><br>N/A                                                                                                                           |
| produce_portion                 | Integer | <b>Definition</b><br>Production TPS proportion.<br><b>Range</b><br>N/A                                                                                                                 |
| consume_portion                 | Integer | <b>Definition</b><br>Consumption TPS proportion.<br><b>Range</b><br>N/A                                                                                                                |
| dr_enable                       | Boolean | <b>Definition</b><br>Whether the instance has disaster recovery (DR).<br><b>Range</b> <ul style="list-style-type: none"> <li>• <b>true:</b> Yes</li> <li>• <b>false:</b> No</li> </ul> |
| quota_address                   | String  | <b>Definition</b><br>Quota address.<br><b>Range</b><br>N/A                                                                                                                             |
| max_msg_process_tps             | Integer | <b>Definition</b><br>Maximum message TPS.<br><b>Range</b><br>N/A                                                                                                                       |
| config_ssl_need_restart_process | Boolean | <b>Definition</b><br>Whether a restart is required to configure SSL.<br><b>Range</b> <ul style="list-style-type: none"> <li>• <b>true:</b> Yes</li> <li>• <b>false:</b> No</li> </ul>  |

| Parameter                     | Type    | Description                                                                                                                                                               |
|-------------------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| tls_mode                      | String  | <b>Definition</b><br>Security protocol used by the instance.<br><b>Range</b><br>N/A                                                                                       |
| arch_type                     | String  | <b>Definition</b><br>Architecture type.<br><b>Range</b> <ul style="list-style-type: none"><li>• X86</li><li>• ARM</li></ul>                                               |
| auto_volume_exp<br>and_enable | Boolean | <b>Definition</b><br>Whether to enable automatic disk capacity expansion.<br><b>Range</b> <ul style="list-style-type: none"><li>• true: Yes</li><li>• false: No</li></ul> |

**Table 5-11** TagEntity

| Parameter | Type   | Description                                                                                                                                                                                                                                                                                       |
|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| key       | String | Tag key. <ul style="list-style-type: none"><li>• Must be specified.</li><li>• Must be unique for the same instance.</li><li>• Can contain 1 to 128 characters.</li><li>• Can contain letters, digits, spaces, and special characters _.:=-@</li><li>• Cannot start or end with a space.</li></ul> |
| value     | String | Tag value. <ul style="list-style-type: none"><li>• Can contain 0 to 255 characters.</li><li>• Can contain letters, digits, spaces, and special characters _.:=-@</li><li>• Cannot start or end with a space.</li></ul>                                                                            |

## Example Requests

Querying details of a specified instance

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

## Example Responses

### Status code: 200

Instance queried successfully.

```
{
  "name" : "reliability-test",
  "engine" : "reliability",
  "status" : "RUNNING",
  "description" : "",
  "type" : "single.basic",
  "specification" : "rocketmq.b1.large.1, 500 tps",
  "engine_version" : "5.x",
  "instance_id" : "68fdc9a8-805e-439d-8dd9-25adc1c58bf6",
  "resource_spec_code" : "",
  "charging_mode" : 1,
  "vpc_id" : "3db8490c-4d6d-4d8f-8d3f-047b0de4c5cf",
  "vpc_name" : "vpc-1101840",
  "created_at" : "1636699753874",
  "product_id" : "rocketmq.b1.large.1",
  "security_group_id" : "23c5977f-ff33-4b95-a73e-08d8a0bc4e6c",
  "security_group_name" : "security_group_test",
  "subnet_id" : "0a0f1fcb-f019-458d-b9e5-301867394d50",
  "subnet_name" : "subnet-test",
  "subnet_cidr" : "192.168.64.0/18",
  "available_zones" : [ "9f1c5806706d4c1fb0eb72f0a9b18c77" ],
  "available_zone_names" : [ "AZ3" ],
  "user_id" : "0b01fbb53600d4671fa8c00673c71260",
  "user_name" : "user_test",
  "maintain_begin" : "02:00:00",
  "maintain_end" : "06:00:00",
  "enable_log_collection" : false,
  "storage_space" : 558,
  "total_storage_space" : 600,
  "used_storage_space" : 28,
  "enable_publicip" : true,
  "publicip_id" : "83924171-7014-48f0-a6b2-c714e7a090dd",
  "publicip_address" : "****",
  "ssl_enable" : false,
  "cross_vpc_info" : "{ \"192.168.93.114\": { \"advertised_ip\": \"192.168.93.114\", \"broker_port\": \"10100\", \"port_id\": \"b3de3981-1f73-4e6f-b35a-78833b783364\", \"namesrv_port\": \"8300\" } }",
  "storage_resource_id" : "164bdaef-2e67-4fd5-be8b-a18f91d455a2",
  "storage_spec_code" : "dms.physical.storage.ultra.v2",
  "service_type" : "advanced",
  "storage_type" : "hec",
  "enterprise_project_id" : "0",
  "extend_times" : 0,
  "ipv6_enable" : false,
  "support_features" : "features.log.collection",
  "disk_encrypted" : false,
  "ces_version" : "linux,v1,v2,v3,v4",
  "new_spec_billing_enable" : true,
  "dns_enable" : false,
  "dr_enable" : false,
  "config_ssl_need_restart_process" : false,
  "enable_acl" : false,
  "namesrv_address" : "192.168.93.114:8100",
  "broker_address" : "192.168.64.0/18:10100",
  "public_namesrv_address" : "100.85.116.211:8200",
  "public_broker_address" : "100.85.116.211:10101",
  "grpc_address" : "192.168.93.114:8080",
  "public_grpc_address" : "100.85.116.211:8081"
}
```

### Status Codes

| Status Code | Description                    |
|-------------|--------------------------------|
| 200         | Instance queried successfully. |

### 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 5-12** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                          |
|------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | <b>Definition</b><br>Project ID. For details about how to obtain it, see <a href="#">Obtaining a Project ID</a> .<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A |

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

## Request Parameters

None

## Response Parameters

**Status code: 204**

Specified instance 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         | Specified instance deleted successfully. |

## Error Codes

See [Error Codes](#).

## 5.1.5 Modifying Instance Information

### Function

This API is used to modify the name and description of an instance.

### URI

PUT /v2/{project\_id}/instances/{instance\_id}

**Table 5-13** Path Parameters

| Parameter   | Mandatory | Type   | Description                                                                                  |
|-------------|-----------|--------|----------------------------------------------------------------------------------------------|
| project_id  | Yes       | String | Project ID. For details about how to obtain it, see <a href="#">Obtaining a Project ID</a> . |
| instance_id | Yes       | String | Instance ID.                                                                                 |

### Request Parameters

**Table 5-14** Request body parameters

| Parameter   | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                   |
|-------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| name        | No        | String | Instance name.<br>An instance name consists of 4 to 64 characters including letters, digits, and hyphens (-) and must start with a letter.                                                                                                                                                                    |
| description | No        | String | Description of an instance.<br>The description supports up to 1024 characters.<br><b>NOTE</b><br>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 ". |

| Parameter             | Mandatory | Type    | Description                                                                                                                                                                                                           |
|-----------------------|-----------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| security_group_id     | No        | String  | Security group ID.<br>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 <i>Virtual Private Cloud API Reference</i> . |
| enable_acl            | No        | Boolean | <b>Definition</b><br>Whether to enable ACL.<br><b>Default Value</b><br><ul style="list-style-type: none"> <li>• <b>true</b>: Yes</li> <li>• <b>false</b>: No</li> </ul>                                               |
| enable_publicip       | No        | Boolean | <b>Definition</b><br>Whether to enable public access.<br><b>Range</b><br><ul style="list-style-type: none"> <li>• <b>true</b>: Yes</li> <li>• <b>false</b>: No</li> </ul>                                             |
| publicip_id           | No        | String  | ID of the EIP bound to the instance.<br>Use commas (,) to separate multiple EIP IDs.<br>This parameter is mandatory if public access is enabled (that is, <b>enable_publicip</b> is set to <b>true</b> ).             |
| enterprise_project_id | No        | String  | <b>Definition</b><br>Enterprise project.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A                                                                                           |

## Response Parameters

**Status code: 204**

Instance information modified successfully.

None

## Example Requests

Modifying the name and description of a RocketMQ instance

```
PUT https://{endpoint}/v2/{project_id}/instances/{instance_id}
{
  "name" : "rocketmq001",
  "description" : "RocketMQ description"
}
```

## Example Responses

None

## Status Codes

| Status Code | Description                                 |
|-------------|---------------------------------------------|
| 204         | Instance information modified successfully. |

## Error Codes

See [Error Codes](#).

## 5.1.6 Batch Deleting Instances

### Function

This API is used to delete instances in batches. **Data in the instances will be deleted without any backup. Exercise caution when performing this operation.**

### URI

POST /v2/{project\_id}/instances/action

**Table 5-15** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                  |
|------------|-----------|--------|----------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain it, see <a href="#">Obtaining a Project ID</a> . |

## Request Parameters

**Table 5-16** 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. Value: <b>delete</b> .                                                                                                                                                                                                                                                                                                               |
| all_failure  | No        | String           | When set to <b>reliability</b> , this parameter indicates that all RocketMQ instances that fail to be created will be deleted.                                                                                                                                                                                                                                               |
| force_delete | No        | Boolean          | <b>Definition</b><br>Whether to forcibly delete.<br><b>Constraints</b><br>N/A<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>true</b>: Yes, forcibly deleted instances are not moved to the recycle bin.</li><li>• <b>false</b>: No, instances will be moved to the recycle bin after the recycle bin function is enabled.</li></ul> <b>Default Value</b><br>N/A |

## Response Parameters

**Status code: 200****Table 5-17** Response body parameters

| Parameter | Type                            | Description                      |
|-----------|---------------------------------|----------------------------------|
| results   | Array of <b>results</b> objects | Result of instance modification. |

**Table 5-18** results

| Parameter | Type   | Description       |
|-----------|--------|-------------------|
| result    | String | Operation result. |

| Parameter | Type   | Description  |
|-----------|--------|--------------|
| instance  | String | Instance ID. |

**Status code: 204**

RocketMQ instance creation failures deleted.

## Example Requests

- Batch deleting RocketMQ instances

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

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

- Deleting all RocketMQ instances that fail to be created

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

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

## Example Responses

**Status code: 200**

Instances deleted.

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

## Status Codes

| Status Code | Description                                  |
|-------------|----------------------------------------------|
| 200         | Instances deleted.                           |
| 204         | RocketMQ instance creation failures deleted. |

## Error Codes

See [Error Codes](#).

## 5.1.7 Querying the Broker List

### Function

This API is used to query the list of brokers.

### URI

GET /v2/{project\_id}/instances/{instance\_id}/brokers

Table 5-19 Path Parameters

| Parameter   | Mandatory | Type   | Description                                                                                                                                                                                                                              |
|-------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id  | Yes       | String | <b>Definition</b><br>Project ID. For details about how to obtain it, see <a href="#">Obtaining a Project ID</a> .<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A                                     |
| instance_id | Yes       | String | <b>Definition</b><br>Instance ID. You can call the API for querying all instances to obtain the instance ID. The instance ID is in the response body.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A |

### Request Parameters

None

### Response Parameters

Status code: 200

**Table 5-20** Response body parameters

| Parameter       | Type                            | Description                                                              |
|-----------------|---------------------------------|--------------------------------------------------------------------------|
| total           | Number                          | <b>Definition</b><br>Total number.<br><b>Range</b><br>N/A                |
| next_offset     | Integer                         | <b>Definition</b><br>Offset of the next page.<br><b>Range</b><br>N/A     |
| previous_offset | Integer                         | <b>Definition</b><br>Offset of the previous page.<br><b>Range</b><br>N/A |
| brokers         | Array of <b>brokers</b> objects | <b>Definition</b><br>Broker list.                                        |

**Table 5-21** brokers

| Parameter   | Type             | Description                                            |
|-------------|------------------|--------------------------------------------------------|
| ids         | Array of numbers | <b>Definition</b><br>All broker IDs.                   |
| broker_name | String           | <b>Definition</b><br>Node name.<br><b>Range</b><br>N/A |

## Example Requests

Querying the broker list of a RocketMQ instance

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

## Example Responses

**Status code: 200**

RocketMQ brokers queried successfully.

```
{  
  "total" : 1,  
  "brokers" : [ {
```

```
{  "ids" : [ 0, 1, 2 ],
  "broker_name" : "broker-0"
},
{  "next_offset" : -1,
  "previous_offset" : -1
}
```

## Status Codes

| Status Code | Description                            |
|-------------|----------------------------------------|
| 200         | RocketMQ brokers queried successfully. |

## Error Codes

See [Error Codes](#).

# 5.2 Consumer Group Management

## 5.2.1 Querying the Consumer Group List

### Function

This API is used to query the consumer group list.

### URI

GET /v2/{project\_id}/instances/{instance\_id}/groups

**Table 5-22** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                          |
|------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | <b>Definition</b><br>Project ID. For details about how to obtain it, see <a href="#">Obtaining a Project ID</a> .<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A |

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

Table 5-23 Query Parameters

| Parameter | Mandatory | Type    | Description                                                                                                                        |
|-----------|-----------|---------|------------------------------------------------------------------------------------------------------------------------------------|
| group     | No        | String  | <b>Definition</b><br>Consumer group name.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default value</b><br>N/A       |
| limit     | No        | Integer | <b>Definition</b><br>Number of records to query.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default value</b><br>10 |

| Parameter | Mandatory | Type    | Description                                                                                                                          |
|-----------|-----------|---------|--------------------------------------------------------------------------------------------------------------------------------------|
| offset    | No        | Integer | <b>Definition</b><br>Offset where the query starts.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>≥ 0<br><b>Default value</b><br>0 |

Request Parameters

None

Response Parameters

Status code: 200

Table 5-24 Response body parameters

| Parameter | Type                                           | Description                                                                                          |
|-----------|------------------------------------------------|------------------------------------------------------------------------------------------------------|
| total     | Number                                         | <b>Definition</b><br>Total number of consumer groups.<br><b>Range</b><br>N/A                         |
| groups    | Array of <a href="#">ConsumerGroup</a> objects | <b>Definition</b><br>Consumer group list.                                                            |
| max       | Integer                                        | <b>Definition</b><br>Maximum number of consumer groups that can be created.<br><b>Range</b><br>N/A   |
| remaining | Integer                                        | <b>Definition</b><br>Remaining number of consumer groups that can be created.<br><b>Range</b><br>N/A |

| Parameter       | Type    | Description                                                              |
|-----------------|---------|--------------------------------------------------------------------------|
| next_offset     | Integer | <b>Definition</b><br>Offset of the next page.<br><b>Range</b><br>N/A     |
| previous_offset | Integer | <b>Definition</b><br>Offset of the previous page.<br><b>Range</b><br>N/A |

**Table 5-25** ConsumerGroup

| Parameter      | Type             | Description                                                                                                                                                        |
|----------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| enabled        | Boolean          | <b>Definition</b><br>Whether consumption is allowed.<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>true</b>: yes</li><li>• <b>false</b>: no</li></ul> |
| broadcast      | Boolean          | <b>Definition</b><br>Whether to broadcast.<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>true</b>: yes</li><li>• <b>false</b>: no</li></ul>           |
| brokers        | Array of strings | <b>Definition</b><br>List of associated brokers.                                                                                                                   |
| name           | String           | <b>Definition</b><br>Consumer group name.<br><b>Range</b><br>N/A                                                                                                   |
| group_desc     | String           | <b>Definition</b><br>Consumer group description.<br><b>Range</b><br>N/A                                                                                            |
| retry_max_time | Integer          | <b>Definition</b><br>Maximum number of retries.<br><b>Range</b><br>1-16                                                                                            |

| Parameter       | Type             | Description                                                                                                                                                                |
|-----------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| created_at      | Long             | <b>Definition</b><br>Creation time.<br><b>Range</b><br>N/A                                                                                                                 |
| permissions     | Array of strings | <b>Definition</b><br>Permission set.                                                                                                                                       |
| consume_orderly | Boolean          | <b>Definition</b><br>Whether orderly consumption is enabled.<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>true</b>: yes</li><li>• <b>false</b>: no</li></ul> |
| group_online    | Boolean          | <b>Definition</b><br>Whether the consumer group is online.<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>true</b>: Yes</li><li>• <b>false</b>: No</li></ul>   |

## Example Requests

Querying the consumer group list of a RocketMQ instance

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

## Example Responses

**Status code: 200**

Consumer groups queried successfully.

```
{
  "total": 1,
  "groups": [ {
    "name": "group-1",
    "enabled": true,
    "broadcast": false,
    "brokers": [ "broker-0" ],
    "created_at": 1709087952686,
    "permissions": [ ],
    "retry_max_time": 16,
    "consume_orderly": false,
    "group_online": false,
    "group_desc": "test"
  } ],
  "max": 4000,
  "remaining": 3999,
  "next_offset": -1,
  "previous_offset": -1
}
```

## Status Codes

| Status Code | Description                           |
|-------------|---------------------------------------|
| 200         | Consumer groups queried successfully. |

## Error Codes

See [Error Codes](#).

## 5.2.2 Creating a Consumer Group or Batch Deleting Consumer Groups

### Function

This API is used to create a consumer group or batch deleting consumer groups.

### URI

POST /v2/{project\_id}/instances/{instance\_id}/groups

**Table 5-26** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                          |
|------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | <b>Definition</b><br>Project ID. For details about how to obtain it, see <a href="#">Obtaining a Project ID</a> .<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A |

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

**Table 5-27** Query Parameters

| Parameter | Mandatory | Type   | Description                                                                                                                                                         |
|-----------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| action    | No        | String | This parameter is used to delete consumer groups in batches. If it is not set, a consumer group will be created. <b>delete</b> : Delete consumer groups in batches. |

## Request Parameters

**Table 5-28** Request body parameters

| Parameter | Mandatory | Type             | Description                            |
|-----------|-----------|------------------|----------------------------------------|
| groups    | No        | Array of strings | List of consumer groups to be deleted. |

| Parameter      | Mandatory | Type             | Description                                                                                                                                                                                                                                                                              |
|----------------|-----------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| name           | No        | String           | <b>Definition</b><br>Consumer group name.<br><b>Constraints</b><br>Enter 3 to 64 characters. Use only letters, digits, percent (%), vertical bars ( ), hyphens (-), and underscores (_).<br>Mandatory for consumer group creation.<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A |
| brokers        | No        | Array of strings | Associated brokers. This parameter is mandatory only for RocketMQ 4.8.0 instances.                                                                                                                                                                                                       |
| broadcast      | No        | Boolean          | Whether to broadcast.                                                                                                                                                                                                                                                                    |
| retry_max_time | No        | Integer          | Maximum number of retries (1 to 16 characters).                                                                                                                                                                                                                                          |
| enabled        | No        | Boolean          | Whether consumption is allowed.                                                                                                                                                                                                                                                          |
| group_desc     | No        | String           | Consumer group description (0 to 200 characters).                                                                                                                                                                                                                                        |

## Response Parameters

**Status code: 200**

**Table 5-29** Response body parameters

| Parameter | Type   | Description                                            |
|-----------|--------|--------------------------------------------------------|
| job_id    | String | ID of the job for deleting consumer groups.            |
| name      | String | ID of the consumer group that is successfully created. |

## Example Requests

- For RocketMQ 4.8.0 instances: Creating a consumer group with broadcast consumption disabled, associated with broker-0, and max. 16 retries.

```
POST https://{endpoint}/v2/{project_id}/instances/{instance_id}/groups
{
  "name": "consumer-group-test",
  "group_desc": "group_description",
  "brokers": [ "broker-0" ],
  "broadcast": false,
  "retry_max_time": 16
}
```

- Deleting consumer group consumer-group-test.

```
POST https://{endpoint}/v2/{project_id}/instances/{instance_id}/groups?action=delete
{
  "job_id": [ "ff8080829ae99a23019b240d388b4e47" ]
}
```

### Example Responses

**Status code: 200**

A consumer group is created or multiple consumer groups are deleted in batches.

```
{
  "name": "consumer-group-test"
}
```

### Status Codes

| Status Code | Description                                                                     |
|-------------|---------------------------------------------------------------------------------|
| 200         | A consumer group is created or multiple consumer groups are deleted in batches. |

### Error Codes

See [Error Codes](#).

## 5.2.3 Batch Modifying Consumer Groups

### Function

This API is used to modify consumer groups in batches.

### URI

PUT /v2/{project\_id}/instances/{instance\_id}/groups

**Table 5-30** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                  |
|------------|-----------|--------|----------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain it, see <a href="#">Obtaining a Project ID</a> . |

| Parameter   | Mandatory | Type   | Description  |
|-------------|-----------|--------|--------------|
| instance_id | Yes       | String | Instance ID. |

## Request Parameters

**Table 5-31** Request body parameters

| Parameter | Mandatory | Type                                                      | Description          |
|-----------|-----------|-----------------------------------------------------------|----------------------|
| groups    | No        | Array of <a href="#">BatchUpdateConsumerGroup</a> objects | Consumer group list. |

**Table 5-32** BatchUpdateConsumerGroup

| Parameter      | Mandatory | Type    | Description                                                                                                                                |
|----------------|-----------|---------|--------------------------------------------------------------------------------------------------------------------------------------------|
| name           | Yes       | String  | Consumer group name. Enter 3 to 64 characters. Use only letters, digits, percent (%), vertical bars ( ), hyphens (-), and underscores (_). |
| broadcast      | No        | Boolean | Whether to broadcast.                                                                                                                      |
| retry_max_time | No        | Integer | Maximum number of retries. The value ranges from 1 to 16.                                                                                  |
| enabled        | No        | Boolean | Whether consumption is allowed.                                                                                                            |
| group_desc     | No        | String  | Consumer group description. 0 to 200 characters.                                                                                           |

## Response Parameters

**Status code: 200**

**Table 5-33** Response body parameters

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

## Example Requests

Batch modifying parameters of consumer groups, with max. retries of consumer-group-test changed to 16.

```
PUT https://{endpoint}/v2/{project_id}/instances/{instance_id}/groups
{
  "groups": [ {
    "name": "consumer-group-test",
    "enabled": true,
    "broadcast": false,
    "consume_orderly": false,
    "retry_max_time": 16
  } ]
}
```

## Example Responses

**Status code: 200**

Consumer groups modified successfully.

```
{
  "job_id": "8abfa7b27da211df017da340427b0979"
}
```

## Status Codes

| Status Code | Description                            |
|-------------|----------------------------------------|
| 200         | Consumer groups modified successfully. |

## Error Codes

See [Error Codes](#).

## 5.2.4 Deleting a Consumer Group

### Function

This API is used to delete a specified consumer group.

### URI

DELETE /v2/{project\_id}/instances/{instance\_id}/groups/{group}

**Table 5-34** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                  |
|------------|-----------|--------|----------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain it, see <a href="#">Obtaining a Project ID</a> . |

| Parameter   | Mandatory | Type   | Description          |
|-------------|-----------|--------|----------------------|
| instance_id | Yes       | String | Instance ID.         |
| group       | Yes       | String | Consumer group name. |

## Request Parameters

None

## Response Parameters

**Status code: 204**

The specified consumer group is deleted.

None

## Example Requests

Deleting a specified consumer group

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

## Example Responses

None

## Status Codes

| Status Code | Description                              |
|-------------|------------------------------------------|
| 204         | The specified consumer group is deleted. |

## Error Codes

See [Error Codes](#).

## 5.2.5 Querying a Consumer Group

### Function

This API is used to query details about a specified consumer group.

### URI

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

**Table 5-35** Path Parameters

| Parameter   | Mandatory | Type   | Description                                                                                  |
|-------------|-----------|--------|----------------------------------------------------------------------------------------------|
| project_id  | Yes       | String | Project ID. For details about how to obtain it, see <a href="#">Obtaining a Project ID</a> . |
| instance_id | Yes       | String | Instance ID.                                                                                 |
| group       | Yes       | String | Consumer group name.                                                                         |

## Request Parameters

None

## Response Parameters

**Status code: 200**

**Table 5-36** Response body parameters

| Parameter | Type             | Description                                                                                                                                                        |
|-----------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| enabled   | Boolean          | <b>Definition</b><br>Whether consumption is allowed.<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>true</b>: Yes</li><li>• <b>false</b>: No</li></ul> |
| broadcast | Boolean          | <b>Definition</b><br>Whether to enable broadcast.<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>true</b>: Yes</li><li>• <b>false</b>: No</li></ul>    |
| brokers   | Array of strings | <b>Definition</b><br>List of associated brokers.<br><b>Range</b><br>N/A                                                                                            |
| name      | String           | <b>Definition</b><br>Consumer group name.<br><b>Range</b><br>N/A                                                                                                   |

| Parameter       | Type             | Description                                                                                                                                                               |
|-----------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| group_desc      | String           | <b>Definition</b><br>Consumer group description.<br><b>Range</b><br>N/A                                                                                                   |
| created_at      | String           | <b>Definition</b><br>Creation time.<br><b>Range</b><br>N/A                                                                                                                |
| retry_max_time  | Integer          | <b>Definition</b><br>Maximum number of retries.<br><b>Range</b><br>N/A                                                                                                    |
| permissions     | Array of strings | <b>Definition</b><br>Permission.<br><b>Range</b><br>N/A                                                                                                                   |
| consume_orderly | Boolean          | <b>Definition</b><br>Whether to enable orderly consumption.<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>true</b>: Yes</li><li>• <b>false</b>: No</li></ul> |

Example Requests

Querying details about a specified consumer group

GET https://{endpoint}/v2/{project\_id}/instances/{instance\_id}/groups/{group}

Example Responses

Status code: 200

Consumer group queried successfully.

```
{
  "name" : "test",
  "group_desc" : "group_description",
  "enabled" : true,
  "broadcast" : true,
  "permissions" : [ ],
  "retry_max_time" : 10,
  "consume_orderly" : false,
  "created_at" : 1764926280314
}
```

## Status Codes

| Status Code | Description                          |
|-------------|--------------------------------------|
| 200         | Consumer group queried successfully. |

## Error Codes

See [Error Codes](#).

## 5.2.6 Modifying a Consumer Group

### Function

This API is used to modify parameters of a specified consumer group.

### URI

PUT /v2/{project\_id}/instances/{instance\_id}/groups/{group}

**Table 5-37** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                          |
|------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | <b>Definition</b><br>Project ID. For details about how to obtain it, see <a href="#">Obtaining a Project ID</a> .<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A |

| Parameter   | Mandatory | Type   | Description                                                                                                                                                                                                                              |
|-------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| instance_id | Yes       | String | <b>Definition</b><br>Instance ID. You can call the API for querying all instances to obtain the instance ID. The instance ID is in the response body.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A |
| group       | Yes       | String | Consumer group name.                                                                                                                                                                                                                     |

## Request Parameters

**Table 5-38** Request body parameters

| Parameter      | Mandatory | Type             | Description                                                                                       |
|----------------|-----------|------------------|---------------------------------------------------------------------------------------------------|
| enabled        | Yes       | Boolean          | Whether a message can be consumed.                                                                |
| broadcast      | Yes       | Boolean          | Whether to broadcast.                                                                             |
| brokers        | No        | Array of strings | List of associated brokers.                                                                       |
| name           | No        | String           | Consumer group whose parameters are to be modified. (The consumer group name cannot be modified.) |
| retry_max_time | Yes       | Integer          | Maximum number of retries. Value range: 1 to 16.                                                  |

## Response Parameters

**Status code: 204**

The specified consumer group is modified.

None

## Example Requests

Changing consumer-group-test's max. retries to 16

```
PUT https://{endpoint}/v2/{project_id}/instances/{instance_id}/groups/{group}
{
  "enabled" : true,
  "retry_max_time" : 16,
  "broadcast" : true
}
```

## Example Responses

None

## Status Codes

| Status Code | Description                               |
|-------------|-------------------------------------------|
| 204         | The specified consumer group is modified. |

## Error Codes

See [Error Codes](#).

## 5.2.7 Querying the Consumer Group List or Details

### Function

This API is used to query the consumer group list or details.

### URI

GET /v2/{project\_id}/instances/{instance\_id}/groups/{group}/topics

Table 5-39 Path Parameters

| Parameter   | Mandatory | Type   | Description                                                                                                                                                                                                                              |
|-------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id  | Yes       | String | <b>Definition</b><br>Project ID. For details about how to obtain it, see <a href="#">Obtaining a Project ID</a> .<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A                                     |
| instance_id | Yes       | String | <b>Definition</b><br>Instance ID. You can call the API for querying all instances to obtain the instance ID. The instance ID is in the response body.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A |
| group       | Yes       | String | <b>Definition</b><br>Consumer group name.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default value</b><br>N/A                                                                                                             |

Table 5-40 Query Parameters

| Parameter | Mandatory | Type    | Description                                                                                                                                                                                                                                                          |
|-----------|-----------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| topic     | No        | String  | <b>Definition</b><br>Topic to be queried. If this parameter is not specified, the entire topic list is queried. If this parameter is specified, details of the topic are queried.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default value</b><br>N/A |
| limit     | No        | Integer | <b>Definition</b><br>Maximum number of topics that can be returned in a query.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>1–50<br><b>Default value</b><br>10                                                                                                    |
| offset    | No        | Integer | <b>Definition</b><br>Offset where the query starts.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>≥ 0<br><b>Default value</b><br>0                                                                                                                                 |

Request Parameters

None

Response Parameters

Status code: 200

**Table 5-41** Response body parameters

| Parameter       | Type                            | Description                                                                                                                                     |
|-----------------|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| topics          | Array of strings                | <b>Definition</b><br>Topic list. This parameter is displayed only when you query the topic consumption list.                                    |
| total           | Integer                         | <b>Definition</b><br>Total number of topics. This parameter is displayed only when you query the topic consumption list.<br><b>Range</b><br>N/A |
| lag             | Long                            | <b>Definition</b><br>Total number of accumulated messages.<br><b>Range</b><br>N/A                                                               |
| max_offset      | Long                            | <b>Definition</b><br>Total number of messages.<br><b>Range</b><br>N/A                                                                           |
| consumer_offset | Long                            | <b>Definition</b><br>Number of consumed messages.<br><b>Range</b><br>N/A                                                                        |
| brokers         | Array of <b>Brokers</b> objects | <b>Definition</b><br>Associated brokers of topics. This parameter is displayed only when you query the topic consumption details.               |

**Table 5-42** Brokers

| Parameter   | Type   | Description                                                                  |
|-------------|--------|------------------------------------------------------------------------------|
| broker_name | String | <b>Definition</b><br>Names of the associated brokers.<br><b>Range</b><br>N/A |

| Parameter | Type                                   | Description                                                   |
|-----------|----------------------------------------|---------------------------------------------------------------|
| queues    | Array of <a href="#">Queue</a> objects | <b>Definition</b><br>Queue details of the associated brokers. |

Table 5-43 Queue

| Parameter         | Type    | Description                                                                                                          |
|-------------------|---------|----------------------------------------------------------------------------------------------------------------------|
| id                | Integer | <b>Definition</b><br>Queue ID.<br><b>Range</b><br>N/A                                                                |
| lag               | Long    | <b>Definition</b><br>Total number of accumulated messages in the queue.<br><b>Range</b><br>N/A                       |
| broker_offset     | Long    | <b>Definition</b><br>Total number of messages in the queue.<br><b>Range</b><br>N/A                                   |
| consumer_offset   | Long    | <b>Definition</b><br>Number of consumed messages.<br><b>Range</b><br>N/A                                             |
| last_message_time | Long    | <b>Definition</b><br>Time (UNIX, in millisecond) when the latest consumed message was stored.<br><b>Range</b><br>N/A |

Example Requests

None

Example Responses

Status code: 200

Consumer group list or details queried successfully.

- Successful

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

- Consumer group details are queried successfully.

```
{
  "lag" : 0,
  "max_offset" : 1,
  "consumer_offset" : 1,
  "brokers" : [ {
    "broker_name" : "broker-0",
    "queues" : [ {
      "id" : 0,
      "lag" : 0,
      "broker_offset" : 0,
      "consumer_offset" : 0,
      "last_message_time" : 0
    }, {
      "id" : 1,
      "lag" : 0,
      "broker_offset" : 1,
      "consumer_offset" : 1,
      "last_message_time" : 1679398537088
    }, {
      "id" : 0,
      "lag" : 0,
      "broker_offset" : 0,
      "consumer_offset" : 0,
      "last_message_time" : 0
    }
  ]
}
}
```

## Status Codes

| Status Code | Description                                          |
|-------------|------------------------------------------------------|
| 200         | Consumer group list or details queried successfully. |

## Error Codes

See [Error Codes](#).

## 5.2.8 Resetting the Consumer Offset

### Function

This API is used to reset the consumer offset.

### URI

POST /v2/{engine}/{project\_id}/instances/{instance\_id}/groups/{group}/reset-message-offset

Table 5-44 Path Parameters

| Parameter   | Mandatory | Type   | Description                                                                                                                                                                                                                                                    |
|-------------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| engine      | Yes       | String | <b>Definition</b><br>Engine.<br><b>Constraints</b><br>N/A<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>rocketmq</b>: RocketMQ message engine.</li><li>• <b>reliability</b>: RocketMQ message engine alias.</li></ul> <b>Default Value</b><br>N/A |
| project_id  | Yes       | String | <b>Definition</b><br>Project ID. For details about how to obtain it, see <a href="#">Obtaining a Project ID</a> .<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A                                                           |
| instance_id | Yes       | String | <b>Definition</b><br>Instance ID. You can call the API for querying all instances to obtain the instance ID. The instance ID is in the response body.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A                       |

| Parameter | Mandatory | Type   | Description                                                                                                                  |
|-----------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------|
| group     | Yes       | String | <b>Definition</b><br>Consumer group name.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A |

## Request Parameters

**Table 5-45** Request body parameters

| Parameter | Mandatory | Type   | Description                                                                                                                |
|-----------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------|
| topic     | Yes       | String | <b>Definition</b><br>Topic to be reset.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A |
| timestamp | Yes       | String | <b>Definition</b><br>Reset time.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A        |

## Response Parameters

**Status code: 200**

Table 5-46 Response body parameters

| Parameter | Type                                    | Description                              |
|-----------|-----------------------------------------|------------------------------------------|
| queues    | Array of <a href="#">queues</a> objects | <b>Definition</b><br>Queues to be reset. |

Table 5-47 queues

| Parameter        | Type    | Description                                                                                                                                |
|------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------|
| broker_name      | String  | <b>Definition</b><br>Broker where the queue is located.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A |
| queue_id         | Integer | <b>Definition</b><br>Queue ID.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A                          |
| timestamp_offset | Long    | <b>Definition</b><br>Resets consumer offset.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A            |

Example Requests

Resetting consumer offset of topic\_01 to the specified time

POST https://{endpoint}/v2/{engine}/{project\_id}/instances/{instance\_id}/groups/{group\_id}/reset-message-offset

```
{
  "topic" : "topic_01",
  "timestamp" : 1662652800000
}
```

## Example Responses

**Status code: 200**

Consumer offset reset.

```
{
  "queues" : [ {
    "broker_name" : "broker-1",
    "queue_id" : 0,
    "timestamp_offset" : 0
  } ]
}
```

## Status Codes

| Status Code | Description            |
|-------------|------------------------|
| 200         | Consumer offset reset. |

## Error Codes

See [Error Codes](#).

## 5.2.9 Querying the Consumer List

### Function

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

### URI

GET /v2/rocketmq/{project\_id}/instances/{instance\_id}/groups/{group}/clients

Table 5-48 Path Parameters

| Parameter   | Mandatory | Type   | Description                                                                                                                                                                                                                              |
|-------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id  | Yes       | String | <b>Definition</b><br>Project ID. For details, see <a href="#">Obtaining a Project ID</a> .<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A                                                            |
| instance_id | Yes       | String | <b>Definition</b><br>Instance ID. You can call the API for querying all instances to obtain the instance ID. The instance ID is in the response body.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A |
| group       | Yes       | String | <b>Definition</b><br>Consumer group name.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A                                                                                                             |

Table 5-49 Query Parameters

| Parameter | Mandatory | Type    | Description                                                                                                                                                                                                                                                                        |
|-----------|-----------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| limit     | No        | Integer | <b>Definition</b><br>Number of records to query.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>1–50<br><b>Default Value</b><br>N/A                                                                                                                                               |
| offset    | No        | Integer | <b>Definition</b><br>Offset, which is the position where the query starts. The value must be greater than or equal to 0.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A                                                                        |
| is_detail | No        | Boolean | <b>Definition</b><br>Indicates whether to query the consumer details. The value <b>true</b> indicates that the detailed consumer list is queried. Otherwise, a simple consumer list is queried.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A |

Request Parameters

None

Response Parameters

Status code: 200

**Table 5-50** Response body parameters

| Parameter                | Type                               | Description                                                                                                                                                              |
|--------------------------|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| group_name               | String                             | <b>Definition</b><br>Consumer group name.<br><b>Range</b><br>N/A                                                                                                         |
| online                   | Boolean                            | <b>Definition</b><br>Whether the consumer group is online.<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>true</b>: Yes</li><li>• <b>false</b>: No</li></ul> |
| subscription_consistency | Boolean                            | <b>Definition</b><br>Whether subscriptions are consistent.<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>true</b>: Yes</li><li>• <b>false</b>: No</li></ul> |
| total                    | Integer                            | <b>Definition</b><br>Total number of consumers.<br><b>Range</b><br>N/A                                                                                                   |
| next_offset              | Integer                            | <b>Definition</b><br>Offset of the next page.<br><b>Range</b><br>N/A                                                                                                     |
| previous_offset          | Integer                            | <b>Definition</b><br>Offset of the previous page.<br><b>Range</b><br>N/A                                                                                                 |
| clients                  | Array of <b>ClientData</b> objects | <b>Definition</b><br>Consumer subscription detail list.                                                                                                                  |

**Table 5-51** ClientData

| Parameter     | Type                                          | Description                                                  |
|---------------|-----------------------------------------------|--------------------------------------------------------------|
| language      | String                                        | <b>Definition</b><br>Client language.<br><b>Range</b><br>N/A |
| version       | String                                        | <b>Definition</b><br>Client version.<br><b>Range</b><br>N/A  |
| client_id     | String                                        | <b>Definition</b><br>Client ID.<br><b>Range</b><br>N/A       |
| client_addr   | String                                        | <b>Definition</b><br>Client address.<br><b>Range</b><br>N/A  |
| subscriptions | Array of <a href="#">Subscription</a> objects | <b>Definition</b><br>Subscription list.                      |

**Table 5-52** Subscription

| Parameter  | Type   | Description                                                                                                                                                                                                 |
|------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| topic      | String | <b>Definition</b><br>Name of the subscribed topic.<br><b>Range</b><br>N/A                                                                                                                                   |
| type       | String | <b>Definition</b><br>Subscription type.<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>TAG</b>: tag-based subscription.</li><li>• <b>SQL92</b>: message-attribute-based subscription.</li></ul> |
| expression | String | Subscription tag.                                                                                                                                                                                           |

## Example Requests

Querying a list of 10 consumers of a specified consumer group from offset=0

```
GET https://{endpoint}/v2/rocketmq/{project_id}/instances/{instance_id}/groups/{group}/clients?
offset=0&limit=10&is_detail=true
```

## Example Responses

**Status code: 200**

Consumer subscription details queried.

```
{
  "group_name" : "test",
  "online" : true,
  "subscription_consistency" : true,
  "total" : 1,
  "next_offset" : -1,
  "previous_offset" : -1,
  "clients" : [ {
    "client_id" : "192.168.0.1@consumer1",
    "language" : "JAVA",
    "version" : "V4_8_0",
    "client_addr" : "192.168.0.1:65233",
    "subscriptions" : [ {
      "topic" : "topicA",
      "type" : "TAG",
      "expression" : "tagA"
    } ]
  } ]
}
```

## Status Codes

| Status Code | Description                            |
|-------------|----------------------------------------|
| 200         | Consumer subscription details queried. |

## Error Codes

See [Error Codes](#).

# 5.3 Topic Management

## 5.3.1 Creating a Topic or Deleting Topics in Batches

### Function

This API is used to create a topic or delete topics in batches.

### URI

POST /v2/{project\_id}/instances/{instance\_id}/topics

**Table 5-53** Path Parameters

| Parameter   | Mandatory | Type   | Description                                                                                                                                                                                                                              |
|-------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id  | Yes       | String | <b>Definition</b><br>Project ID. For details about how to obtain it, see <a href="#">Obtaining a Project ID</a> .<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A                                     |
| instance_id | Yes       | String | <b>Definition</b><br>Instance ID. You can call the API for querying all instances to obtain the instance ID. The instance ID is in the response body.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A |

**Table 5-54** Query Parameters

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                      |
|-----------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| action    | No        | String | <b>Definition</b><br>This parameter is used to delete topics in batches. If it is not set, a topic will be created.<br><b>Constraints</b><br>N/A<br><b>Range</b> <ul style="list-style-type: none"> <li><b>delete:</b> batch deletion</li> <li>Left blank: topic creation</li> </ul> <b>Default Value</b><br>N/A |

## Request Parameters

**Table 5-55** Request body parameters

| Parameter    | Mandatory | Type                                    | Description                                                                                                                                                                                                                                                                                                          |
|--------------|-----------|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| name         | No        | String                                  | <b>Definition</b><br>Topic name.<br><b>Constraints</b><br>Enter 3 to 64 characters. Use only letters, digits, percent (%), vertical bars ( ), hyphens (-), and underscores (_).<br>Mandatory for topic creation.<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A                                               |
| brokers      | No        | Array of strings                        | Associated broker. This parameter is mandatory only for RocketMQ 4.8.0 instances.                                                                                                                                                                                                                                    |
| queue_num    | No        | Number                                  | Total number of queues. The range is 1–50.                                                                                                                                                                                                                                                                           |
| queues       | No        | Array of <a href="#">queues</a> objects | Queue. This parameter is mandatory only for RocketMQ 4.8.0 instances.                                                                                                                                                                                                                                                |
| permission   | No        | String                                  | Permission. This parameter is mandatory only for RocketMQ 4.8.0 instances.<br>Options: <ul style="list-style-type: none"><li>• <b>pub</b> (publish)</li><li>• <b>sub</b> (subscribe)</li><li>• <b>all</b> (publish + subscribe)</li></ul>                                                                            |
| message_type | No        | String                                  | Message type (This parameter is mandatory only for RocketMQ 5.x instances).<br>Options: <ul style="list-style-type: none"><li>• <b>NORMAL</b> (normal messages)</li><li>• <b>FIFO</b> (ordered messages)</li><li>• <b>DELAY</b> (scheduled messages)</li><li>• <b>TRANSACTION</b> (transactional messages)</li></ul> |

| Parameter | Mandatory | Type             | Description                                                            |
|-----------|-----------|------------------|------------------------------------------------------------------------|
| topics    | No        | Array of strings | Topic list. This parameter is used when topics are deleted in batches. |

**Table 5-56** queues

| Parameter | Mandatory | Type   | Description                                      |
|-----------|-----------|--------|--------------------------------------------------|
| broker    | No        | String | Associated brokers.                              |
| queue_num | No        | Number | Number of queues. The value ranges from 1 to 50. |

## Response Parameters

**Status code: 200**

**Table 5-57** Response body parameters

| Parameter | Type   | Description                 |
|-----------|--------|-----------------------------|
| id        | String | Topic name.                 |
| job_id    | String | Job ID for deleting topics. |

## Example Requests

- For RocketMQ 4.8.0 instances: Creating a topic associated with broker-0 with 3 queues

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

```
{
  "name": "topic-test",
  "permission": "all",
  "queues": [ {
    "broker": "broker-0",
    "queue_num": 3
  } ]
}
```

- Deleting topics of a RocketMQ 5.x instance in a batch

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

```
{
  "topics": [ "topic01", "topic02" ]
}
```

## Example Responses

**Status code: 200**

Topic created.

- Successfully created the topic

```
{  
  "id" : "topic-test"  
}
```

- Successfully deleted topics in a batch

```
{  
  "job_id" : "8abfa7b299f0497c0199f0dc0a9a092b"  
}
```

## Status Codes

| Status Code | Description    |
|-------------|----------------|
| 200         | Topic created. |

## Error Codes

See [Error Codes](#).

## 5.3.2 Querying the Topic List

### Function

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

### URI

GET /v2/{project\_id}/instances/{instance\_id}/topics

**Table 5-58** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                          |
|------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | <b>Definition</b><br>Project ID. For details about how to obtain it, see <a href="#">Obtaining a Project ID</a> .<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A |

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

Table 5-59 Query Parameters

| Parameter | Mandatory | Type    | Description                                                                                                                            |
|-----------|-----------|---------|----------------------------------------------------------------------------------------------------------------------------------------|
| limit     | No        | Integer | <b>Definition</b><br>Number of records to query.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>1-50<br><b>Default value</b><br>N/A   |
| offset    | No        | Integer | <b>Definition</b><br>Offset where the query starts.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>≥ 0<br><b>Default value</b><br>N/A |

Request Parameters

None

Response Parameters

Status code: 200

**Table 5-60** Response body parameters

| Parameter       | Type                                   | Description                                                                                 |
|-----------------|----------------------------------------|---------------------------------------------------------------------------------------------|
| total           | Integer                                | <b>Definition</b><br>Total number of topics.<br><b>Range</b><br>N/A                         |
| max             | Integer                                | <b>Definition</b><br>Maximum number of topics that can be created.<br><b>Range</b><br>N/A   |
| remaining       | Integer                                | <b>Definition</b><br>Remaining number of topics that can be created.<br><b>Range</b><br>N/A |
| next_offset     | Integer                                | <b>Definition</b><br>Offset of the next page.<br><b>Range</b><br>N/A                        |
| previous_offset | Integer                                | <b>Definition</b><br>Offset of the previous page.<br><b>Range</b><br>N/A                    |
| topics          | Array of <a href="#">Topic</a> objects | <b>Definition</b><br>Remaining number of topics that can be created.                        |

**Table 5-61** Topic

| Parameter | Type   | Description                                             |
|-----------|--------|---------------------------------------------------------|
| name      | String | <b>Definition</b><br>Topic name.<br><b>Range</b><br>N/A |

| Parameter             | Type                            | Description                                                                                                                                                                                                                                                                                                                 |
|-----------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| total_read_queue_num  | Number                          | <b>Definition</b><br>Total number of read queues.<br><b>Range</b><br>N/A                                                                                                                                                                                                                                                    |
| total_write_queue_num | Number                          | <b>Definition</b><br>Total number of write queues.<br><b>Range</b><br>N/A                                                                                                                                                                                                                                                   |
| permission            | String                          | <b>Definition</b><br>Permission.<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>sub</b>: subscribe permissions.</li><li>• <b>pub</b>: publish permissions.</li><li>• <b>all</b>: subscribe and publish permissions.</li></ul>                                                                                   |
| brokers               | Array of <b>brokers</b> objects | <b>Definition</b><br>Associated broker.                                                                                                                                                                                                                                                                                     |
| message_type          | String                          | <b>Definition</b><br>Message type (available only for RocketMQ 5.x instances).<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>NORMAL</b>: normal messages.</li><li>• <b>FIFO</b>: ordered messages.</li><li>• <b>DELAY</b>: scheduled messages.</li><li>• <b>TRANSACTION</b>: transactional messages.</li></ul> |

**Table 5-62** brokers

| Parameter   | Type   | Description                                              |
|-------------|--------|----------------------------------------------------------|
| broker_name | String | <b>Definition</b><br>Broker name.<br><b>Range</b><br>N/A |

| Parameter       | Type   | Description                                                         |
|-----------------|--------|---------------------------------------------------------------------|
| read_queue_num  | Number | <b>Definition</b><br>Number of read queues.<br><b>Range</b><br>N/A  |
| write_queue_num | Number | <b>Definition</b><br>Number of write queues.<br><b>Range</b><br>N/A |

Example Requests

Querying a list of 10 topics of a specified RocketMQ instance from offset=0

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

Example Responses

Status code: 200

Query succeeded.

```
{
  "total" : 3,
  "max" : 2000,
  "remaining" : 1997,
  "next_offset" : -1,
  "previous_offset" : -1,
  "topics" : [ {
    "name" : "topic-1",
    "total_read_queue_num" : 3,
    "total_write_queue_num" : 3,
    "permission" : "all",
    "brokers" : [ {
      "broker_name" : "broker-0",
      "read_queue_num" : 3,
      "write_queue_num" : 3
    } ],
    "message_type" : "NORMAL"
  }, {
    "name" : "topic-2",
    "total_read_queue_num" : 3,
    "total_write_queue_num" : 3,
    "permission" : "all",
    "brokers" : [ {
      "broker_name" : "broker-0",
      "read_queue_num" : 3,
      "write_queue_num" : 3
    } ],
    "message_type" : "NORMAL"
  }, {
    "name" : "topic-3",
    "total_read_queue_num" : 3,
    "total_write_queue_num" : 3,
    "permission" : "all",
    "brokers" : [ {
      "broker_name" : "broker-0",
```

```
"read_queue_num" : 3,  
"write_queue_num" : 3  
}],  
"message_type" : "NORMAL"  
}]  
}
```

## Status Codes

| Status Code | Description      |
|-------------|------------------|
| 200         | Query succeeded. |

## Error Codes

See [Error Codes](#).

## 5.3.3 Deleting a Topic

### Function

This API is used to delete a specified topic.

### URI

DELETE /v2/{project\_id}/instances/{instance\_id}/topics/{topic}

**Table 5-63** Path Parameters

| Parameter   | Mandatory | Type   | Description                                                                                  |
|-------------|-----------|--------|----------------------------------------------------------------------------------------------|
| project_id  | Yes       | String | Project ID. For details about how to obtain it, see <a href="#">Obtaining a Project ID</a> . |
| instance_id | Yes       | String | Instance ID.                                                                                 |
| topic       | Yes       | String | Topic name.                                                                                  |

### Request Parameters

None

### Response Parameters

**Status code: 204**

The specified topic is deleted.

None

## Example Requests

Deleting a specified topic

DELETE https://{endpoint}/v2/{project\_id}/instances/{instance\_id}/topics/{topic}

## Example Responses

None

## Status Codes

| Status Code | Description                     |
|-------------|---------------------------------|
| 204         | The specified topic is deleted. |

## Error Codes

See [Error Codes](#).

## 5.3.4 Querying a Topic

### Function

This API is used to query a topic.

### URI

GET /v2/{project\_id}/instances/{instance\_id}/topics/{topic}

**Table 5-64** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                          |
|------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | <b>Definition</b><br>Project ID. For details about how to obtain it, see <a href="#">Obtaining a Project ID</a> .<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A |

| Parameter   | Mandatory | Type   | Description                                                                                                                                                                                                                              |
|-------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| instance_id | Yes       | String | <b>Definition</b><br>Instance ID. You can call the API for querying all instances to obtain the instance ID. The instance ID is in the response body.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A |
| topic       | Yes       | String | Topic name.                                                                                                                                                                                                                              |

Request Parameters

None

Response Parameters

Status code: 200

Table 5-65 Response body parameters

| Parameter             | Type   | Description                                                               |
|-----------------------|--------|---------------------------------------------------------------------------|
| name                  | String | <b>Definition</b><br>Topic name.<br><b>Range</b><br>N/A                   |
| total_read_queue_num  | Number | <b>Definition</b><br>Total number of read queues.<br><b>Range</b><br>N/A  |
| total_write_queue_num | Number | <b>Definition</b><br>Total number of write queues.<br><b>Range</b><br>N/A |

| Parameter    | Type                            | Description                                                                                                                                                                                                                                                                                                                 |
|--------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| permission   | String                          | <b>Definition</b><br>Permission.<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>sub</b>: subscribe permissions.</li><li>• <b>pub</b>: publish permissions.</li><li>• <b>all</b>: subscribe and publish permissions.</li></ul>                                                                                   |
| brokers      | Array of <b>brokers</b> objects | <b>Definition</b><br>Associated broker.                                                                                                                                                                                                                                                                                     |
| message_type | String                          | <b>Definition</b><br>Message type (available only for RocketMQ 5.x instances).<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>NORMAL</b>: normal messages.</li><li>• <b>FIFO</b>: ordered messages.</li><li>• <b>DELAY</b>: scheduled messages.</li><li>• <b>TRANSACTION</b>: transactional messages.</li></ul> |

**Table 5-66** brokers

| Parameter       | Type   | Description                                                         |
|-----------------|--------|---------------------------------------------------------------------|
| broker_name     | String | <b>Definition</b><br>Broker name.<br><b>Range</b><br>N/A            |
| read_queue_num  | Number | <b>Definition</b><br>Number of read queues.<br><b>Range</b><br>N/A  |
| write_queue_num | Number | <b>Definition</b><br>Number of write queues.<br><b>Range</b><br>N/A |

## Example Requests

Querying details about a specified topic

GET https://{endpoint}/v2/{project\_id}/instances/{instance\_id}/topics/{topic}

## Example Responses

**Status code: 200**

Topic queried successfully.

```
{
  "name" : "topic",
  "total_read_queue_num" : 3,
  "total_write_queue_num" : 3,
  "permission" : "all",
  "brokers" : [ {
    "broker_name" : "broker-0",
    "read_queue_num" : 3,
    "write_queue_num" : 3
  } ],
  "message_type" : "NORMAL"
}
```

## Status Codes

| Status Code | Description                 |
|-------------|-----------------------------|
| 200         | Topic queried successfully. |

## Error Codes

See [Error Codes](#).

## 5.3.5 Modifying a Topic

### Function

This API is used to modify a topic.

### URI

PUT /v2/{project\_id}/instances/{instance\_id}/topics/{topic}

Table 5-67 Path Parameters

| Parameter   | Mandatory | Type   | Description                                                                                                                                                                                                                              |
|-------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id  | Yes       | String | <b>Definition</b><br>Project ID. For details about how to obtain it, see <a href="#">Obtaining a Project ID</a> .<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A                                     |
| instance_id | Yes       | String | <b>Definition</b><br>Instance ID. You can call the API for querying all instances to obtain the instance ID. The instance ID is in the response body.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A |
| topic       | Yes       | String | <b>Definition</b><br>Topic name.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A                                                                                                                      |

Request Parameters

Table 5-68 Request body parameters

| Parameter       | Mandatory | Type   | Description                                                                                                                                                                                 |
|-----------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| read_queue_num  | No        | Number | <b>Definition</b><br>Total number of read queues.<br><b>Constraints</b><br>This parameter can be modified only for v4.8.0 instances.<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A  |
| write_queue_num | No        | Number | <b>Definition</b><br>Total number of write queues.<br><b>Constraints</b><br>This parameter can be modified only for v4.8.0 instances.<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A |
| permission      | No        | String | <b>Definition</b><br>Permission.<br><b>Constraints</b><br>This parameter can be modified only for v4.8.0 instances.<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A                   |

| Parameter  | Mandatory | Type                                                    | Description                                                                                                                                                          |
|------------|-----------|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| queues     | No        | Array of <a href="#">UpdateTopicQueueEntity</a> objects | <b>Definition</b><br>Queue.<br><b>Constraints</b><br>This parameter can be modified only for v4.8.0 instances.<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A |
| topic_desc | No        | String                                                  | <b>Definition:</b><br>Topic description.<br><b>Constraints:</b><br>N/A<br><b>Range:</b><br>N/A<br><b>Default Value:</b><br>N/A                                       |

**Table 5-69** UpdateTopicQueueEntity

| Parameter      | Mandatory | Type   | Description                                                                                                                        |
|----------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------|
| broker         | No        | String | <b>Definition:</b><br>Broker name.<br><b>Constraints:</b><br>N/A<br><b>Range:</b><br>N/A<br><b>Default Value:</b><br>N/A           |
| read_queue_num | No        | Number | <b>Definition:</b><br>Number of read queues.<br><b>Constraints:</b><br>N/A<br><b>Range:</b><br>N/A<br><b>Default Value:</b><br>N/A |

| Parameter       | Mandatory | Type   | Description                                                                                                                         |
|-----------------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------|
| write_queue_num | No        | Number | <b>Definition:</b><br>Number of write queues.<br><b>Constraints:</b><br>N/A<br><b>Range:</b><br>N/A<br><b>Default Value:</b><br>N/A |

## Response Parameters

**Status code: 204**

The topic is modified.

None

## Example Requests

Changing a specified topic's total read queues to 3 and total write queues to 3

```
PUT https://{endpoint}/v2/{project_id}/instances/{instance_id}/topics/{topic}
{
  "topic_desc" : "topic_description"
}
```

## Example Responses

None

## Status Codes

| Status Code | Description            |
|-------------|------------------------|
| 204         | The topic is modified. |

## Error Codes

See [Error Codes](#).

## 5.3.6 Querying the Topic Consumer Group List

### Function

This API is used to query the topic consumer group list.

URI

GET /v2/{project\_id}/instances/{instance\_id}/topics/{topic}/groups

Table 5-70 Path Parameters

| Parameter   | Mandatory | Type   | Description                                                                                                                                                                                                                              |
|-------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id  | Yes       | String | <b>Definition</b><br>Project ID. For details about how to obtain it, see <a href="#">Obtaining a Project ID</a> .<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A                                     |
| instance_id | Yes       | String | <b>Definition</b><br>Instance ID. You can call the API for querying all instances to obtain the instance ID. The instance ID is in the response body.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A |
| topic       | Yes       | String | <b>Definition</b><br>Topic name.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A                                                                                                                      |

**Table 5-71** Query Parameters

| Parameter | Mandatory | Type    | Description                                                                                                                                            |
|-----------|-----------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| limit     | No        | Integer | <b>Definition</b><br>Maximum number of records returned in a query.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>1–50<br><b>Default Value</b><br>10 |
| offset    | No        | Integer | <b>Definition</b><br>Offset where the query starts.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>≥ 0<br><b>Default Value</b><br>N/A                 |

## Request Parameters

None

## Response Parameters

**Status code: 200**

**Table 5-72** Response body parameters

| Parameter | Type             | Description                               |
|-----------|------------------|-------------------------------------------|
| groups    | Array of strings | <b>Definition</b><br>Consumer group list. |

## Example Requests

Querying the consumer group list of a specified topic

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

## Example Responses

**Status code: 200**

Topic consumer group list queried successfully.

```
{  
  "groups" : [ "CID_JODIE_1", "test_consumer" ]  
}
```

## Status Codes

| Status Code | Description                                     |
|-------------|-------------------------------------------------|
| 200         | Topic consumer group list queried successfully. |

## Error Codes

See [Error Codes](#).

## 5.3.7 Querying the Number of Messages in a Topic

### Function

This API is used to query the number of messages in a topic.

### URI

GET /v2/{project\_id}/instances/{instance\_id}/topics/{topic}/status

**Table 5-73** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                          |
|------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | <b>Definition</b><br>Project ID. For details about how to obtain it, see <a href="#">Obtaining a Project ID</a> .<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A |

| Parameter   | Mandatory | Type   | Description                                                                                                                                                                                                                 |
|-------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| instance_id | Yes       | String | <b>Definition</b><br>You can call the API for querying all instances to obtain the instance ID. The instance ID is in the response body.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A |
| topic       | Yes       | String | <b>Definition</b><br>Topic name.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A                                                                                                         |

## Request Parameters

None

## Response Parameters

**Status code: 200**

**Table 5-74** Response body parameters

| Parameter  | Type    | Description                                                 |
|------------|---------|-------------------------------------------------------------|
| max_offset | Integer | <b>Definition</b><br>Maximum offset.<br><b>Range</b><br>N/A |
| min_offset | Integer | <b>Definition</b><br>Minimum offset.<br><b>Range</b><br>N/A |

| Parameter | Type                                     | Description                 |
|-----------|------------------------------------------|-----------------------------|
| brokers   | Array of <a href="#">brokers</a> objects | <b>Definition</b><br>Proxy. |

**Table 5-75** brokers

| Parameter   | Type                                    | Description                                            |
|-------------|-----------------------------------------|--------------------------------------------------------|
| queues      | Array of <a href="#">queues</a> objects | <b>Definition</b><br>Queue list.                       |
| broker_name | String                                  | <b>Definition</b><br>Node name.<br><b>Range</b><br>N/A |

**Table 5-76** queues

| Parameter         | Type    | Description                                                           |
|-------------------|---------|-----------------------------------------------------------------------|
| id                | Integer | <b>Definition</b><br>Queue ID.<br><b>Range</b><br>N/A                 |
| min_offset        | Integer | <b>Definition</b><br>Minimum offset.<br><b>Range</b><br>N/A           |
| max_offset        | Integer | <b>Definition</b><br>Maximum offset.<br><b>Range</b><br>N/A           |
| last_message_time | Long    | <b>Definition</b><br>Time of the last message.<br><b>Range</b><br>N/A |

## Example Requests

Querying the number of messages in a specified topic

GET https://{endpoint}/v2/{project\_id}/instances/{instance\_id}/topics/{topic}/status

## Example Responses

**Status code: 200**

Successful

Successful.

```
{
  "brokers" : {
    "queues" : [ {
      "id" : 0,
      "min_offset" : 0,
      "max_offset" : 2,
      "last_message_time" : 1662689877152
    } ],
    "broker_name" : "broker-0"
  }
}
```

## Status Codes

| Status Code | Description |
|-------------|-------------|
| 200         | Successful  |

## Error Codes

See [Error Codes](#).

# 5.4 Message Management

## 5.4.1 Querying Messages

### Function

This API is used to query messages.

### URI

GET /v2/{engine}/{project\_id}/instances/{instance\_id}/messages

**Table 5-77** Path Parameters

| Parameter   | Mandatory | Type   | Description                                                                                                                                                                                                                                                            |
|-------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| engine      | Yes       | String | <b>Definition</b><br>Message engine.<br><b>Constraints</b><br>N/A<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>rocketmq</b>: RocketMQ message engine.</li><li>• <b>reliability</b>: RocketMQ message engine alias.</li></ul> <b>Default Value</b><br>N/A |
| project_id  | Yes       | String | <b>Definition</b><br>Project ID. For details about how to obtain it, see <a href="#">Obtaining a Project ID</a> .<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A                                                                   |
| instance_id | Yes       | String | <b>Definition</b><br>Instance ID. You can call the API for querying all instances to obtain the instance ID. The instance ID is in the response body.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A                               |

**Table 5-78** Query Parameters

| Parameter | Mandatory | Type   | Description |
|-----------|-----------|--------|-------------|
| topic     | Yes       | String | Topic name. |

| Parameter  | Mandatory | Type    | Description                                                                                                                                                        |
|------------|-----------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| queue      | No        | String  | Queue.                                                                                                                                                             |
| limit      | No        | Integer | Number of records to query.                                                                                                                                        |
| offset     | No        | Integer | Offset, which is the position where the query starts. The value must be greater than or equal to 0.                                                                |
| key        | No        | String  | Key of a message.                                                                                                                                                  |
| start_time | No        | String  | Start time. This parameter is mandatory when msg_id is not used for query.                                                                                         |
| end_time   | No        | String  | End time. This parameter is mandatory when msg_id is not used for query.                                                                                           |
| msg_id     | No        | String  | <b>Definition</b><br>Message ID.<br><b>Constraints</b><br>Mandatory when a time range is not used for query.<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A |

Request Parameters

None

Response Parameters

Status code: 200

Table 5-79 Response body parameters

| Parameter | Type                                     | Description                                                           |
|-----------|------------------------------------------|-----------------------------------------------------------------------|
| messages  | Array of <a href="#">Message</a> objects | Message list.                                                         |
| total     | Number                                   | <b>Definition</b><br>Total number of messages.<br><b>Range</b><br>N/A |

**Table 5-80** Message

| Parameter       | Type                                           | Description                                        |
|-----------------|------------------------------------------------|----------------------------------------------------|
| msg_id          | String                                         | Message ID.                                        |
| instance_id     | String                                         | Instance ID.                                       |
| topic           | String                                         | Topic name.                                        |
| store_timestamp | Number                                         | Time when the message is stored.                   |
| born_timestamp  | Number                                         | Time when the message is generated.                |
| reconsume_times | Integer                                        | Number of retry times.                             |
| body            | String                                         | Message body.                                      |
| body_crc        | Number                                         | Message body checksum.                             |
| store_size      | Number                                         | Storage size.                                      |
| property_list   | Array of <a href="#">property_list</a> objects | Message attribute list.                            |
| born_host       | String                                         | IP address of the host that generates the message. |
| store_host      | String                                         | IP address of the host that stores the message.    |
| queue_id        | Integer                                        | Queue ID.                                          |
| queue_offset    | Integer                                        | Offset in the queue.                               |

**Table 5-81** property\_list

| Parameter | Type   | Description      |
|-----------|--------|------------------|
| name      | String | Attribute name.  |
| value     | String | Attribute value. |

## Example Requests

### Querying messages

```
GET https://{endpoint}/v2/{engine}/{project_id}/instances/{instance_id}/messages?
topic={topic}&msg_id=C0A807C900002774000000000000000030
```

## Example Responses

### Status code: 200

Messages queried successfully.

```
{
  "messages": [ {
    "msg_id": "C0A807C9000027740000000000000030",
    "instance_id": "11c45539-xxxx-xxxx-xxxx-812c41f61f30",
    "topic": "topic-test",
    "store_timestamp": 1648888166319,
    "born_timestamp": 1648888166275,
    "reconsume_times": 0,
    "body": "xxxx",
    "body_crc": 1932557065,
    "store_size": 175,
    "property_list": [ {
      "name": "KEYS",
      "value": ""
    }, {
      "name": "UNIQ_KEY",
      "value": "7F00000123DC6E0BE85808B037820000"
    }, {
      "name": "CLUSTER",
      "value": "DmsCluster"
    }, {
      "name": "TAGS",
      "value": ""
    } ],
    "born_host": "192.168.0.66:50098",
    "store_host": "192.168.7.201:10100",
    "queue_id": 2,
    "queue_offset": 0
  } ],
  "total": 1
}
```

## Status Codes

| Status Code | Description                    |
|-------------|--------------------------------|
| 200         | Messages queried successfully. |

## Error Codes

See [Error Codes](#).

## 5.4.2 Sending a Message

### Function

This API is used to send a message.

### URI

POST /v2/{engine}/{project\_id}/instances/{instance\_id}/messages

Table 5-82 Path Parameters

| Parameter   | Mandatory | Type   | Description                                                                                                                                                                                                                                                    |
|-------------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| engine      | Yes       | String | <b>Definition</b><br>Engine.<br><b>Constraints</b><br>N/A<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>rocketmq</b>: RocketMQ message engine.</li><li>• <b>reliability</b>: RocketMQ message engine alias.</li></ul> <b>Default Value</b><br>N/A |
| project_id  | Yes       | String | <b>Definition</b><br>Project ID. For details about how to obtain it, see <a href="#">Obtaining a Project ID</a> .<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A                                                           |
| instance_id | Yes       | String | <b>Definition</b><br>Instance ID. You can call the API for querying all instances to obtain the instance ID. The instance ID is in the response body.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A                       |

## Request Parameters

**Table 5-83** Request body parameters

| Parameter     | Mandatory | Type                                                   | Description                                                                                                              |
|---------------|-----------|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| topic         | Yes       | String                                                 | <b>Definition</b><br>Topic name.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A      |
| body          | Yes       | String                                                 | <b>Definition</b><br>Message content.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A |
| property_list | No        | Array of <a href="#">SendMessageProperties</a> objects | <b>Definition</b><br>Feature list.                                                                                       |

**Table 5-84** SendMessageProperties

| Parameter | Mandatory | Type   | Description                                                  |
|-----------|-----------|--------|--------------------------------------------------------------|
| name      | No        | String | <b>Definition:</b><br>Feature name.<br><b>Range:</b><br>N/A  |
| value     | No        | String | <b>Definition:</b><br>Feature value.<br><b>Range:</b><br>N/A |

## Response Parameters

Status code: 200

Table 5-85 Response body parameters

| Parameter     | Type                                                   | Description                                                    |
|---------------|--------------------------------------------------------|----------------------------------------------------------------|
| topic         | String                                                 | <b>Definition:</b><br>Topic name.<br><b>Range:</b><br>N/A      |
| body          | String                                                 | <b>Definition:</b><br>Message content.<br><b>Range:</b><br>N/A |
| property_list | Array of <a href="#">SendMessageProperties</a> objects | <b>Definition:</b><br>Feature list.<br><b>Range:</b><br>N/A    |
| msg_id        | String                                                 | <b>Definition:</b><br>Message ID.<br><b>Range:</b><br>N/A      |
| queue_id      | Number                                                 | <b>Definition:</b><br>Queue ID.<br><b>Range:</b><br>N/A        |
| queue_offset  | Number                                                 | <b>Definition:</b><br>Queue offset.<br><b>Range:</b><br>N/A    |
| broker_name   | String                                                 | <b>Definition:</b><br>Broker name.<br><b>Range:</b><br>N/A     |

Table 5-86 SendMessageProperties

| Parameter | Type   | Description                                                  |
|-----------|--------|--------------------------------------------------------------|
| name      | String | <b>Definition:</b><br>Feature name.<br><b>Range:</b><br>N/A  |
| value     | String | <b>Definition:</b><br>Feature value.<br><b>Range:</b><br>N/A |

Example Requests

Sending a message

POST https://{endpoint}/v2/{engine}/{project\_id}/instances/{instance\_id}/messages

Example Responses

Status code: 200

Successful

```
{
  "topic": "aaaaaaaaaaaa",
  "body": "test",
  "property_list": [ ],
  "msg_id": "644F0E2A315323EAB33D8F4733110009",
  "queue_id": 0,
  "queue_offset": 0,
  "broker_name": "broker-0"
}
```

Status Codes

| Status Code | Description |
|-------------|-------------|
| 200         | Successful  |

Error Codes

See [Error Codes](#).

5.4.3 Querying the Message Trace

Function

This API is used to query the message trace.

## URI

GET /v2/{engine}/{project\_id}/instances/{instance\_id}/trace

**Table 5-87** Path Parameters

| Parameter   | Mandatory | Type   | Description                                                                                  |
|-------------|-----------|--------|----------------------------------------------------------------------------------------------|
| engine      | Yes       | String | Message engine.                                                                              |
| project_id  | Yes       | String | Project ID. For details about how to obtain it, see <a href="#">Obtaining a Project ID</a> . |
| instance_id | Yes       | String | Instance ID.                                                                                 |

**Table 5-88** Query Parameters

| Parameter | Mandatory | Type   | Description |
|-----------|-----------|--------|-------------|
| msg_id    | Yes       | String | Message ID. |

## Request Parameters

None

## Response Parameters

**Status code: 200**

**Table 5-89** Response body parameters

| Parameter       | Type                                   | Description                  |
|-----------------|----------------------------------------|------------------------------|
| total           | Number                                 | Total.                       |
| next_offset     | Integer                                | Offset of the next page.     |
| previous_offset | Integer                                | Offset of the previous page. |
| trace           | Array of <a href="#">trace</a> objects | Message trace list.          |

**Table 5-90** trace

| Parameter      | Type    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| success        | Boolean | <b>Definition</b><br>Successful or not.<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>true</b>: Yes</li><li>• <b>false</b>: No</li></ul>                                                                                                                                                                                                                                                                                                                                                                          |
| trace_type     | String  | <b>Definition</b><br>Trace type.<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>Pub</b>: The producer successfully sends messages.</li><li>• <b>SubBefore</b>: The consumer is ready to consume messages.</li><li>• <b>SubAfter</b>: The consumer finishes consuming messages.</li><li>• <b>EndTransaction</b>: Transactional messages are committed or rolled back.</li><li>• <b>Receive</b>: The service side receives messages.</li><li>• <b>Ack</b>: The consumer manually acknowledges consumption.</li></ul> |
| timestamp      | Number  | Time.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| group_name     | String  | Producer group or consumer group.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| cost_time      | Number  | Time spent.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| request_id     | String  | Request ID.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| consume_status | Number  | Consumption status. <ul style="list-style-type: none"><li>• <b>0</b>: Successful</li><li>• <b>1</b>: Timeout</li><li>• <b>2</b>: Exception</li><li>• <b>3</b>: Null</li><li>• <b>5</b>: Failed</li></ul>                                                                                                                                                                                                                                                                                                                       |
| topic          | String  | Topic name.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| msg_id         | String  | Message ID.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| offset_msg_id  | String  | Offset message ID.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| tags           | String  | Message tag.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| keys           | String  | Message keys.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

| Parameter              | Type    | Description                                                                                                                                                                                                                                                                                                                             |
|------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| store_host             | String  | IP address of the host that stores the message.                                                                                                                                                                                                                                                                                         |
| client_host            | String  | IP address of the host that generates the message.                                                                                                                                                                                                                                                                                      |
| retry_times            | Integer | Number of retry times.                                                                                                                                                                                                                                                                                                                  |
| body_length            | Number  | Message body length.                                                                                                                                                                                                                                                                                                                    |
| msg_type               | String  | <b>Definition</b><br>Message type.<br><b>Range</b> <ul style="list-style-type: none"> <li>• <b>Normal_Msg</b>: normal message</li> <li>• <b>Trans_Msg_Half</b>: half message</li> <li>• <b>Trans_msg_Commit</b>: delivered message</li> <li>• <b>Delay_Msg</b>: delayed message</li> <li>• <b>Order_Msg</b>: ordered message</li> </ul> |
| transaction_state      | String  | <b>Definition</b><br>Transaction status.<br><b>Range</b> <ul style="list-style-type: none"> <li>• <b>COMMIT_MESSAGE</b></li> <li>• <b>ROLLBACK_MESSAGE</b></li> <li>• <b>UNKNOWN</b></li> </ul>                                                                                                                                         |
| transaction_id         | String  | Transaction ID.                                                                                                                                                                                                                                                                                                                         |
| from_transaction_check | Boolean | <b>Definition</b><br>Whether the response is a transaction check response.<br><b>Range</b> <ul style="list-style-type: none"> <li>• <b>true</b>: Yes</li> <li>• <b>false</b>: No</li> </ul>                                                                                                                                             |

## Example Requests

Querying the message trace of a RocketMQ instance

GET https://{endpoint}/v2/{engine}/{project\_id}/instances/{instance\_id}/trace?msg\_id={msg\_id}

## Example Responses

**Status code: 200**

The query is successful.

```
{
  "total" : 1,
  "next_offset" : -1,
  "previous_offset" : -1,
  "trace" : [ {
    "success" : true,
    "trace_type" : "Pub",
    "timestamp" : 1634822858013,
    "group_name" : "ProducerGroupName",
    "cost_time" : 47,
    "request_id" : "644F0069C829287CBBF26B9A54390000",
    "consume_status" : 0,
    "topic" : "aaaaa",
    "msg_id" : "7F000001561018B4AAC26B9A0D1D0004",
    "offset_msg_id" : "C0A801170000277400000000000000BE12",
    "tags" : "TagA",
    "keys" : "OrderID188",
    "store_host" : "192.168.0.1:10101",
    "client_host" : "127.0.0.1",
    "retry_times" : 0,
    "body_length" : 11,
    "msg_type" : "Normal_Msg",
    "transaction_state" : "Ack",
    "transaction_id" : "xxxxxx",
    "from_transaction_check" : false
  } ]
}
```

## Status Codes

| Status Code | Description              |
|-------------|--------------------------|
| 200         | The query is successful. |

## Error Codes

See [Error Codes](#).

## 5.4.4 Exporting Dead Letter Messages

### Function

This API is used to export dead letter messages.

### URI

POST /v2/{project\_id}/instances/{instance\_id}/messages/export

**Table 5-91** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                  |
|------------|-----------|--------|----------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain it, see <a href="#">Obtaining a Project ID</a> . |

| Parameter   | Mandatory | Type   | Description  |
|-------------|-----------|--------|--------------|
| instance_id | Yes       | String | Instance ID. |

## Request Parameters

**Table 5-92** Request body parameters

| Parameter     | Mandatory | Type             | Description      |
|---------------|-----------|------------------|------------------|
| topic         | No        | String           | Topic name.      |
| msg_id_list   | No        | Array of strings | Message ID list. |
| uniq_key_list | No        | Array of strings | Unique key list. |

## Response Parameters

**Status code: 200**

**Table 5-93** Response body parameters

| Parameter | Type                            | Description |
|-----------|---------------------------------|-------------|
| [items]   | Array of <b>Message</b> objects | Message.    |

**Table 5-94** Message

| Parameter       | Type    | Description                         |
|-----------------|---------|-------------------------------------|
| msg_id          | String  | Message ID.                         |
| instance_id     | String  | Instance ID.                        |
| topic           | String  | Topic name.                         |
| store_timestamp | Number  | Time when the message is stored.    |
| born_timestamp  | Number  | Time when the message is generated. |
| reconsume_times | Integer | Number of retry times.              |
| body            | String  | Message body.                       |
| body_crc        | Number  | Message body checksum.              |
| store_size      | Number  | Storage size.                       |

| Parameter     | Type                                           | Description                                        |
|---------------|------------------------------------------------|----------------------------------------------------|
| property_list | Array of <a href="#">property_list</a> objects | Message attribute list.                            |
| born_host     | String                                         | IP address of the host that generates the message. |
| store_host    | String                                         | IP address of the host that stores the message.    |
| queue_id      | Integer                                        | Queue ID.                                          |
| queue_offset  | Integer                                        | Offset in the queue.                               |

**Table 5-95** property\_list

| Parameter | Type   | Description      |
|-----------|--------|------------------|
| name      | String | Attribute name.  |
| value     | String | Attribute value. |

## Example Requests

Exporting dead letter messages with the specified message IDs and keys in the topic

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

```
{
  "topic": "%DLQ%group1",
  "msg_id_list": [ "C0A8011700002774000000000013B19D", "C0A8011700002774000000000013B30F" ],
  "uniq_key_list": [ "7F000001001C18B4AAC26B8AED170010", "7F000001001C18B4AAC26B8AEE030015" ]
}
```

## Example Responses

**Status code: 200**

Dead letter messages exported successfully.

```
[ {
  "topic": "topic_01",
  "body": "Hello world",
  "property_list": {
    "name": "ORIGIN_MESSAGE_ID",
    "value": "C0A8005B00002775000000000000EBAE"
  },
  "msg_id": "C0A8005B00002775000000000000133A2",
  "instance_id": "56055acb-3c3b-4481-aeab-10464086c2b4",
  "store_timestamp": 1662690563020,
  "born_timestamp": 1662690324415,
  "reconsume_times": 5,
  "body_crc": 198614610,
  "store_size": 317,
}
```

```
"born_host" : "10.58.233.224:63529",  
"store_host" : "192.168.0.91:10101",  
"queue_id" : 0,  
"queue_offset" : 0  
}]
```

## Status Codes

| Status Code | Description                                 |
|-------------|---------------------------------------------|
| 200         | Dead letter messages exported successfully. |

## Error Codes

See [Error Codes](#).

## 5.4.5 Resending Dead Letter Messages

### Function

Resending dead letter messages

### URI

POST /v2/{engine}/{project\_id}/instances/{instance\_id}/messages/deadletter-resend

**Table 5-96** Path Parameters

| Parameter   | Mandatory | Type   | Description                                                                                  |
|-------------|-----------|--------|----------------------------------------------------------------------------------------------|
| engine      | Yes       | String | Message engine.                                                                              |
| project_id  | Yes       | String | Project ID. For details about how to obtain it, see <a href="#">Obtaining a Project ID</a> . |
| instance_id | Yes       | String | Instance ID.                                                                                 |

## Request Parameters

**Table 5-97** Request body parameters

| Parameter   | Mandatory | Type             | Description   |
|-------------|-----------|------------------|---------------|
| topic       | No        | String           | Topic name.   |
| msg_id_list | No        | Array of strings | Message list. |

## Response Parameters

**Status code: 200**

**Table 5-98** Response body parameters

| Parameter      | Type                                            | Description                                |
|----------------|-------------------------------------------------|--------------------------------------------|
| resend_results | Array of <a href="#">resend_results</a> objects | Result of resending a dead letter message. |

**Table 5-99** resend\_results

| Parameter     | Type   | Description    |
|---------------|--------|----------------|
| msg_id        | String | Message ID.    |
| error_code    | String | Error code.    |
| error_message | String | Error message. |

## Example Requests

Resending dead letter messages

```
POST https://{endpoint}/v2/{engine}/{project_id}/instances/{instance_id}/messages/deadletter-resend
{
  "topic": "%DLQ%group1",
  "msg_id_list": [ "id1" ]
}
```

## Example Responses

**Status code: 200**

Dead letter messages resent.

```
{
  "resend_results": [ {
    "msg_id": "C0A8149E00002776000000000000B6835",
    "error_code": "DMS.00000000",
    "error_message": "Success."
  } ]
}
```

## Status Codes

| Status Code | Description                  |
|-------------|------------------------------|
| 200         | Dead letter messages resent. |

## Error Codes

See [Error Codes](#).

## 5.4.6 Verifying Consumption

### Function

This API is used to verify consumption.

### URI

POST /v2/{engine}/{project\_id}/instances/{instance\_id}/messages/resend

**Table 5-100** Path Parameters

| Parameter   | Mandatory | Type   | Description                                                                                  |
|-------------|-----------|--------|----------------------------------------------------------------------------------------------|
| engine      | Yes       | String | Message engine.                                                                              |
| project_id  | Yes       | String | Project ID. For details about how to obtain it, see <a href="#">Obtaining a Project ID</a> . |
| instance_id | Yes       | String | Instance ID.                                                                                 |

### Request Parameters

**Table 5-101** Request body parameters

| Parameter   | Mandatory | Type             | Description                       |
|-------------|-----------|------------------|-----------------------------------|
| group       | Yes       | String           | Group ID.                         |
| topic       | No        | String           | Topic to which a message belongs. |
| client_id   | Yes       | String           | Client ID.                        |
| msg_id_list | No        | Array of strings | Message list.                     |

### Response Parameters

Status code: 200

**Table 5-102** Response body parameters

| Parameter      | Type                                            | Description                      |
|----------------|-------------------------------------------------|----------------------------------|
| resend_results | Array of <a href="#">resend_results</a> objects | Consumption verification result. |

**Table 5-103** resend\_results

| Parameter     | Type   | Description    |
|---------------|--------|----------------|
| msg_id        | String | Message ID.    |
| error_code    | String | Error code.    |
| error_message | String | Error message. |

## Example Requests

Verifying consumption

```
POST https://{endpoint}/v2/{engine}/{project_id}/instances/{instance_id}/messages/resend
{
  "group": "GID_test",
  "client_id": "192.168.0.1",
  "msg_id_list": [ "id1" ]
}
```

## Example Responses

**Status code: 200**

Consumption verified.

```
{
  "resend_results": [ {
    "msg_id": "C0A8149E00002776000000000000B6835",
    "error_code": "DMS.00000000",
    "error_message": "Success."
  } ]
}
```

## Status Codes

| Status Code | Description           |
|-------------|-----------------------|
| 200         | Consumption verified. |

## Error Codes

See [Error Codes](#).

## 5.5 User Management

### 5.5.1 Creating a User

#### Function

This API is used to create a user.

#### URI

POST /v2/{project\_id}/instances/{instance\_id}/users

**Table 5-104** Path Parameters

| Parameter   | Mandatory | Type   | Description                                                                                                                                                                                                                              |
|-------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id  | Yes       | String | <b>Definition</b><br>Project ID. For details about how to obtain it, see <a href="#">Obtaining a Project ID</a> .<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A                                     |
| instance_id | Yes       | String | <b>Definition</b><br>Instance ID. You can call the API for querying all instances to obtain the instance ID. The instance ID is in the response body.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A |

## Request Parameters

**Table 5-105** Request body parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| access_key | No        | String | <b>Definition</b><br>Username.<br><b>Constraints</b><br>Starts with a letter, consists of 7 to 64 characters, and contains only letters, digits, hyphens (-), and underscores (_).<br><b>Range</b><br>N/A<br><b>Default value</b><br>N/A                                                                                                                                                                                                     |
| secret_key | Yes       | String | <b>Definition</b><br>Key.<br><b>Constraints</b><br>8 to 32 characters.<br>Contain at least three of the following character types: <ul style="list-style-type: none"><li>• Uppercase letters</li><li>• Lowercase letters</li><li>• Digits</li><li>• Special characters`~!@#\$%^&amp;*()-_+=+\\[{}];:","&lt;.&gt;/?</li></ul> Cannot be the username or the username spelled backwards.<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A |

| Parameter            | Mandatory | Type    | Description                                                                                                                                                                                                                                                                                                                                                      |
|----------------------|-----------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| white_remote_address | No        | String  | <b>Definition</b><br>IP address whitelist.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default value</b><br>N/A                                                                                                                                                                                                                                    |
| admin                | No        | Boolean | <b>Definition</b><br>Whether the user is an administrator.<br><b>Constraints</b><br>N/A<br><b>Range</b> <ul style="list-style-type: none"> <li>• <b>true</b>: Yes</li> <li>• <b>false</b>: No</li> </ul> <b>Default Value</b><br>N/A                                                                                                                             |
| default_topic_perm   | No        | String  | <b>Definition</b><br>Default topic permissions.<br><b>Constraints</b><br>N/A<br><b>Range</b> <ul style="list-style-type: none"> <li>• <b>PUB</b>: publish permissions.</li> <li>• <b>SUB</b>: subscribe permissions.</li> <li>• <b>PUB SUB</b>: subscribe and publish permissions.</li> <li>• <b>DENY</b>: no permission.</li> </ul> <b>Default Value</b><br>N/A |

| Parameter          | Mandatory | Type                                         | Description                                                                                                                                                                                                                                                    |
|--------------------|-----------|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| default_group_perm | No        | String                                       | <b>Definition</b><br>Default consumer group permissions.<br><b>Constraints</b><br>N/A<br><b>Range</b><br><ul style="list-style-type: none"> <li><b>SUB</b>: subscribe permissions.</li> <li><b>DENY</b>: no permission.</li> </ul> <b>Default Value</b><br>N/A |
| topic_perms        | No        | Array of <a href="#">topic_perms</a> objects | <b>Definition</b><br>Special topic permissions.<br><b>Constraints</b><br>N/A                                                                                                                                                                                   |
| group_perms        | No        | Array of <a href="#">group_perms</a> objects | <b>Definition</b><br>Special consumer group permissions.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default value</b><br>N/A                                                                                                                    |

**Table 5-106** topic\_perms

| Parameter | Mandatory | Type   | Description                                                                                                         |
|-----------|-----------|--------|---------------------------------------------------------------------------------------------------------------------|
| name      | No        | String | <b>Definition</b><br>Topic name.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default value</b><br>N/A |

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                                                             |
|-----------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| perm      | No        | String | <b>Definition</b><br>Topic permission.<br><b>Constraints</b><br>N/A<br><b>Range</b> <ul style="list-style-type: none"> <li>• <b>PUB</b>: publish permissions.</li> <li>• <b>SUB</b>: subscribe permissions.</li> <li>• <b>PUB SUB</b>: subscribe and publish permissions.</li> <li>• <b>DENY</b>: no permission.</li> </ul> <b>Default Value</b><br>N/A |

**Table 5-107** group\_perms

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                                                                             |
|-----------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| name      | No        | String | <b>Definition</b><br>Consumer group name.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default value</b><br>N/A                                                                                                                            |
| perm      | No        | String | <b>Definition</b><br>Consumer group permissions.<br><b>Constraints</b><br>N/A<br><b>Range</b> <ul style="list-style-type: none"> <li>• <b>SUB</b>: subscribe permissions.</li> <li>• <b>DENY</b>: no permission.</li> </ul> <b>Default Value</b><br>N/A |

## Response Parameters

**Status code: 200**

**Table 5-108** Response body parameters

| Parameter                | Type                                | Description                                                                                                                                                                                                                                                                                        |
|--------------------------|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| access_key               | String                              | <b>Definition</b><br>Username.<br><b>Range</b><br>N/A                                                                                                                                                                                                                                              |
| secret_key               | String                              | <b>Definition</b><br>Secret key.<br><b>Range</b><br>N/A                                                                                                                                                                                                                                            |
| white_remote_address     | String                              | <b>Definition</b><br>IP address whitelist.<br><b>Range</b><br>N/A                                                                                                                                                                                                                                  |
| admin                    | Boolean                             | <b>Definition</b><br>Whether the user is an administrator.<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>true</b>: Yes</li><li>• <b>false</b>: No</li></ul>                                                                                                                           |
| default_topic_permission | String                              | <b>Definition</b><br>Default topic permissions.<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>PUB</b>: publish permissions.</li><li>• <b>SUB</b>: subscribe permissions.</li><li>• <b>PUB SUB</b>: subscribe and publish permissions.</li><li>• <b>DENY</b>: no permission.</li></ul> |
| default_group_permission | String                              | <b>Definition</b><br>Default consumer group permissions.<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>SUB</b>: subscribe permissions.</li><li>• <b>DENY</b>: no permission.</li></ul>                                                                                                |
| topic_perms              | Array of <b>topic_perms</b> objects | <b>Definition</b><br>Special topic permissions.                                                                                                                                                                                                                                                    |
| group_perms              | Array of <b>group_perms</b> objects | <b>Definition</b><br>Special consumer group permissions.                                                                                                                                                                                                                                           |

**Table 5-109** topic\_perms

| Parameter | Type   | Description                                                                                                                                                                                                                                                                               |
|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| name      | String | <b>Definition</b><br>Topic name.<br><b>Range</b><br>N/A                                                                                                                                                                                                                                   |
| perm      | String | <b>Definition</b><br>Topic permission.<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>PUB</b>: publish permissions.</li><li>• <b>SUB</b>: subscribe permissions.</li><li>• <b>PUB SUB</b>: subscribe and publish permissions.</li><li>• <b>DENY</b>: no permission.</li></ul> |

**Table 5-110** group\_perms

| Parameter | Type   | Description                                                                                                                                                                                 |
|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| name      | String | <b>Definition</b><br>Consumer group name.<br><b>Range</b><br>N/A                                                                                                                            |
| perm      | String | <b>Definition</b><br>Consumer group permissions.<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>SUB</b>: subscribe permissions.</li><li>• <b>DENY</b>: no permission.</li></ul> |

## Example Requests

Creating a non-administrator user with permissions to publish and subscribe to topic1 and group1

POST https://{endpoint}/v2/{project\_id}/instances/{instance\_id}/users

```
{
  "access_key" : "user_name",
  "secret_key" : "Abcd1234!",
  "white_remote_address" : "",
  "admin" : false,
  "default_topic_perm" : "DENY",
  "default_group_perm" : "DENY",
  "topic_perms" : [ {
    "name" : "topic1",
```

```
"perm" : "PUB|SUB"
  },
  "group_perms" : [ {
    "name" : "group1",
    "perm" : "PUB|SUB"
  } ]
}
```

## Example Responses

**Status code: 200**

The creation is successful.

```
{
  "access_key" : "test_01",
  "admin" : false,
  "default_group_perm" : "DENY",
  "default_topic_perm" : "SUB",
  "group_perms" : [ ],
  "secret_key" : "Abcd1234!",
  "topic_perms" : [ ],
  "white_remote_address" : ""
}
```

## Status Codes

| Status Code | Description                 |
|-------------|-----------------------------|
| 200         | The creation is successful. |

## Error Codes

See [Error Codes](#).

## 5.5.2 Querying the User List

### Function

This API is used to query the user list.

### URI

GET /v2/{project\_id}/instances/{instance\_id}/users

Table 5-111 Path Parameters

| Parameter   | Mandatory | Type   | Description                                                                                                                                                                                                                              |
|-------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id  | Yes       | String | <b>Definition</b><br>Project ID. For details about how to obtain it, see <a href="#">Obtaining a Project ID</a> .<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A                                     |
| instance_id | Yes       | String | <b>Definition</b><br>Instance ID. You can call the API for querying all instances to obtain the instance ID. The instance ID is in the response body.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A |

Table 5-112 Query Parameters

| Parameter | Mandatory | Type    | Description                                                                                         |
|-----------|-----------|---------|-----------------------------------------------------------------------------------------------------|
| limit     | No        | Integer | Number of records to query.                                                                         |
| offset    | No        | Integer | Offset, which is the position where the query starts. The value must be greater than or equal to 0. |

Request Parameters

None

Response Parameters

Status code: 200

**Table 5-113** Response body parameters

| Parameter | Type                                      | Description                                                        |
|-----------|-------------------------------------------|--------------------------------------------------------------------|
| users     | Array of <a href="#">UserResp</a> objects | User list.                                                         |
| total     | Number                                    | <b>Definition</b><br>Total number of users.<br><b>Range</b><br>N/A |

**Table 5-114** UserResp

| Parameter                | Type    | Description                                                                                                                                                                                                                                                                                     |
|--------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| access_key               | String  | <b>Definition</b><br>Username.<br><b>Range</b><br>N/A                                                                                                                                                                                                                                           |
| secret_key               | String  | <b>Definition</b><br>Secret key.<br><b>Range</b><br>N/A                                                                                                                                                                                                                                         |
| white_remote_address     | String  | <b>Definition</b><br>IP address whitelist.<br><b>Range</b><br>N/A                                                                                                                                                                                                                               |
| admin                    | Boolean | <b>Definition</b><br>Whether the user is an administrator.<br><b>Range</b> <ul style="list-style-type: none"> <li><b>true</b>: Yes</li> <li><b>false</b>: No</li> </ul>                                                                                                                         |
| default_topic_permission | String  | <b>Definition</b><br>Default topic permissions.<br><b>Range</b> <ul style="list-style-type: none"> <li><b>PUB</b>: publish permissions.</li> <li><b>SUB</b>: subscribe permissions.</li> <li><b>PUB SUB</b>: subscribe and publish permissions.</li> <li><b>DENY</b>: no permission.</li> </ul> |

| Parameter          | Type                                         | Description                                                                                                                                                                                         |
|--------------------|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| default_group_perm | String                                       | <b>Definition</b><br>Default consumer group permissions.<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>SUB</b>: subscribe permissions.</li><li>• <b>DENY</b>: no permission.</li></ul> |
| topic_perms        | Array of <a href="#">topic_perms</a> objects | <b>Definition</b><br>Special topic permissions.                                                                                                                                                     |
| group_perms        | Array of <a href="#">group_perms</a> objects | <b>Definition</b><br>Special consumer group permissions.                                                                                                                                            |

**Table 5-115** topic\_perms

| Parameter | Type   | Description                                                                                                                                                                                                                                                                               |
|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| name      | String | <b>Definition</b><br>Topic name.<br><b>Range</b><br>N/A                                                                                                                                                                                                                                   |
| perm      | String | <b>Definition</b><br>Topic permission.<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>PUB</b>: publish permissions.</li><li>• <b>SUB</b>: subscribe permissions.</li><li>• <b>PUB SUB</b>: subscribe and publish permissions.</li><li>• <b>DENY</b>: no permission.</li></ul> |

**Table 5-116** group\_perms

| Parameter | Type   | Description                                                      |
|-----------|--------|------------------------------------------------------------------|
| name      | String | <b>Definition</b><br>Consumer group name.<br><b>Range</b><br>N/A |

| Parameter | Type   | Description                                                                                                                                                                                 |
|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| perm      | String | <b>Definition</b><br>Consumer group permissions.<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>SUB</b>: subscribe permissions.</li><li>• <b>DENY</b>: no permission.</li></ul> |

## Example Requests

Querying the user list

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

## Example Responses

**Status code: 200**

Query result.

```
{
  "users" : [ {
    "access_key" : "test_01",
    "admin" : false,
    "default_group_perm" : "DENY",
    "default_topic_perm" : "SUB",
    "group_perms" : [ ],
    "secret_key" : "Abcd1234!",
    "topic_perms" : [ ],
    "white_remote_address" : ""
  } ],
  "total" : 1
}
```

## Status Codes

| Status Code | Description   |
|-------------|---------------|
| 200         | Query result. |

## Error Codes

See [Error Codes](#).

## 5.5.3 Modifying User Parameters

### Function

This API is used to modify user parameters.

URI

PUT /v2/{project\_id}/instances/{instance\_id}/users/{user\_name}

Table 5-117 Path Parameters

| Parameter   | Mandatory | Type   | Description                                                                                                                                                                                                                              |
|-------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id  | Yes       | String | <b>Definition</b><br>Project ID. For details about how to obtain it, see <a href="#">Obtaining a Project ID</a> .<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A                                     |
| instance_id | Yes       | String | <b>Definition</b><br>Instance ID. You can call the API for querying all instances to obtain the instance ID. The instance ID is in the response body.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A |
| user_name   | Yes       | String | <b>Definition</b><br>Username.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default value</b><br>N/A                                                                                                                        |

## Request Parameters

**Table 5-118** Request body parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| access_key | No        | String | <p><b>Definition</b><br/>Username.</p> <p><b>Constraints</b><br/>Starts with a letter, consists of 7 to 64 characters, and contains only letters, digits, hyphens (-), and underscores (_).</p> <p><b>Range</b><br/>N/A</p> <p><b>Default value</b><br/>N/A</p>                                                                                                                                                                                                                    |
| secret_key | Yes       | String | <p><b>Definition</b><br/>Key.</p> <p><b>Constraints</b><br/>8 to 32 characters.<br/>Contain at least three of the following character types:</p> <ul style="list-style-type: none"> <li>• Uppercase letters</li> <li>• Lowercase letters</li> <li>• Digits</li> <li>• Special characters `~!@#\$%^&amp;*()-_+=+\\[{}];:","&lt;.&gt;/?`</li> </ul> <p>Cannot be the username or the username spelled backwards.</p> <p><b>Range</b><br/>N/A</p> <p><b>Default Value</b><br/>N/A</p> |

| Parameter            | Mandatory | Type    | Description                                                                                                                                                                                                                                                                                                                                                      |
|----------------------|-----------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| white_remote_address | No        | String  | <b>Definition</b><br>IP address whitelist.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default value</b><br>N/A                                                                                                                                                                                                                                    |
| admin                | No        | Boolean | <b>Definition</b><br>Whether the user is an administrator.<br><b>Constraints</b><br>N/A<br><b>Range</b> <ul style="list-style-type: none"> <li>• <b>true</b>: Yes</li> <li>• <b>false</b>: No</li> </ul> <b>Default Value</b><br>N/A                                                                                                                             |
| default_topic_perm   | No        | String  | <b>Definition</b><br>Default topic permissions.<br><b>Constraints</b><br>N/A<br><b>Range</b> <ul style="list-style-type: none"> <li>• <b>PUB</b>: publish permissions.</li> <li>• <b>SUB</b>: subscribe permissions.</li> <li>• <b>PUB SUB</b>: subscribe and publish permissions.</li> <li>• <b>DENY</b>: no permission.</li> </ul> <b>Default Value</b><br>N/A |

| Parameter          | Mandatory | Type                                         | Description                                                                                                                                                                                                                                                    |
|--------------------|-----------|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| default_group_perm | No        | String                                       | <b>Definition</b><br>Default consumer group permissions.<br><b>Constraints</b><br>N/A<br><b>Range</b><br><ul style="list-style-type: none"> <li><b>SUB</b>: subscribe permissions.</li> <li><b>DENY</b>: no permission.</li> </ul> <b>Default Value</b><br>N/A |
| topic_perms        | No        | Array of <a href="#">topic_perms</a> objects | <b>Definition</b><br>Special topic permissions.<br><b>Constraints</b><br>N/A                                                                                                                                                                                   |
| group_perms        | No        | Array of <a href="#">group_perms</a> objects | <b>Definition</b><br>Special consumer group permissions.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default value</b><br>N/A                                                                                                                    |

**Table 5-119** topic\_perms

| Parameter | Mandatory | Type   | Description                                                                                                         |
|-----------|-----------|--------|---------------------------------------------------------------------------------------------------------------------|
| name      | No        | String | <b>Definition</b><br>Topic name.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default value</b><br>N/A |

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                                                             |
|-----------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| perm      | No        | String | <b>Definition</b><br>Topic permission.<br><b>Constraints</b><br>N/A<br><b>Range</b> <ul style="list-style-type: none"> <li>• <b>PUB</b>: publish permissions.</li> <li>• <b>SUB</b>: subscribe permissions.</li> <li>• <b>PUB SUB</b>: subscribe and publish permissions.</li> <li>• <b>DENY</b>: no permission.</li> </ul> <b>Default Value</b><br>N/A |

**Table 5-120** group\_perms

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                                                                             |
|-----------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| name      | No        | String | <b>Definition</b><br>Consumer group name.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default value</b><br>N/A                                                                                                                            |
| perm      | No        | String | <b>Definition</b><br>Consumer group permissions.<br><b>Constraints</b><br>N/A<br><b>Range</b> <ul style="list-style-type: none"> <li>• <b>SUB</b>: subscribe permissions.</li> <li>• <b>DENY</b>: no permission.</li> </ul> <b>Default Value</b><br>N/A |

## Response Parameters

**Status code: 200**

**Table 5-121** Response body parameters

| Parameter                | Type                                | Description                                                                                                                                                                                                                                                                                        |
|--------------------------|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| access_key               | String                              | <b>Definition</b><br>Username.<br><b>Range</b><br>N/A                                                                                                                                                                                                                                              |
| secret_key               | String                              | <b>Definition</b><br>Secret key.<br><b>Range</b><br>N/A                                                                                                                                                                                                                                            |
| white_remote_address     | String                              | <b>Definition</b><br>IP address whitelist.<br><b>Range</b><br>N/A                                                                                                                                                                                                                                  |
| admin                    | Boolean                             | <b>Definition</b><br>Whether the user is an administrator.<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>true</b>: Yes</li><li>• <b>false</b>: No</li></ul>                                                                                                                           |
| default_topic_permission | String                              | <b>Definition</b><br>Default topic permissions.<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>PUB</b>: publish permissions.</li><li>• <b>SUB</b>: subscribe permissions.</li><li>• <b>PUB SUB</b>: subscribe and publish permissions.</li><li>• <b>DENY</b>: no permission.</li></ul> |
| default_group_permission | String                              | <b>Definition</b><br>Default consumer group permissions.<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>SUB</b>: subscribe permissions.</li><li>• <b>DENY</b>: no permission.</li></ul>                                                                                                |
| topic_perms              | Array of <b>topic_perms</b> objects | <b>Definition</b><br>Special topic permissions.                                                                                                                                                                                                                                                    |
| group_perms              | Array of <b>group_perms</b> objects | <b>Definition</b><br>Special consumer group permissions.                                                                                                                                                                                                                                           |

**Table 5-122** topic\_perms

| Parameter | Type   | Description                                                                                                                                                                                                                                                                               |
|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| name      | String | <b>Definition</b><br>Topic name.<br><b>Range</b><br>N/A                                                                                                                                                                                                                                   |
| perm      | String | <b>Definition</b><br>Topic permission.<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>PUB</b>: publish permissions.</li><li>• <b>SUB</b>: subscribe permissions.</li><li>• <b>PUB SUB</b>: subscribe and publish permissions.</li><li>• <b>DENY</b>: no permission.</li></ul> |

**Table 5-123** group\_perms

| Parameter | Type   | Description                                                                                                                                                                                 |
|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| name      | String | <b>Definition</b><br>Consumer group name.<br><b>Range</b><br>N/A                                                                                                                            |
| perm      | String | <b>Definition</b><br>Consumer group permissions.<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>SUB</b>: subscribe permissions.</li><li>• <b>DENY</b>: no permission.</li></ul> |

## Example Requests

Granting user\_name permissions to publish and subscribe to topic1 and group1

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

```
{
  "access_key" : "user_name",
  "secret_key" : "Abcd1234!",
  "white_remote_address" : "",
  "admin" : false,
  "default_topic_perm" : "DENY",
  "default_group_perm" : "DENY",
  "topic_perms" : [ {
    "name" : "topic1",
    "perm" : "PUB|SUB"
  }
]
```

```
    },  
    "group_perms" : [ {  
      "name" : "group1",  
      "perm" : "PUB|SUB"  
    } ]  
  }  
}
```

## Example Responses

**Status code: 200**

The modification is successful.

```
{  
  "access_key" : "test_01",  
  "admin" : false,  
  "default_group_perm" : "DENY",  
  "default_topic_perm" : "SUB",  
  "group_perms" : [ ],  
  "secret_key" : "Abcd1234!",  
  "topic_perms" : [ ],  
  "white_remote_address" : ""  
}
```

## Status Codes

| Status Code | Description                     |
|-------------|---------------------------------|
| 200         | The modification is successful. |

## Error Codes

See [Error Codes](#).

## 5.5.4 Querying User Details

### Function

This API is used to query user details.

### URI

GET /v2/{project\_id}/instances/{instance\_id}/users/{user\_name}

**Table 5-124** Path Parameters

| Parameter   | Mandatory | Type   | Description                                                                                  |
|-------------|-----------|--------|----------------------------------------------------------------------------------------------|
| project_id  | Yes       | String | Project ID. For details about how to obtain it, see <a href="#">Obtaining a Project ID</a> . |
| instance_id | Yes       | String | Instance ID.                                                                                 |
| user_name   | Yes       | String | Username.                                                                                    |

Request Parameters

None

Response Parameters

Status code: 200

Table 5-125 Response body parameters

| Parameter                | Type    | Description                                                                                                                                                                                                                                                                                        |
|--------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| access_key               | String  | <b>Definition</b><br>Username.<br><b>Range</b><br>N/A                                                                                                                                                                                                                                              |
| secret_key               | String  | <b>Definition</b><br>Secret key.<br><b>Range</b><br>N/A                                                                                                                                                                                                                                            |
| white_remote_address     | String  | <b>Definition</b><br>IP address whitelist.<br><b>Range</b><br>N/A                                                                                                                                                                                                                                  |
| admin                    | Boolean | <b>Definition</b><br>Whether the user is an administrator.<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>true</b>: Yes</li><li>• <b>false</b>: No</li></ul>                                                                                                                           |
| default_topic_permission | String  | <b>Definition</b><br>Default topic permissions.<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>PUB</b>: publish permissions.</li><li>• <b>SUB</b>: subscribe permissions.</li><li>• <b>PUB SUB</b>: subscribe and publish permissions.</li><li>• <b>DENY</b>: no permission.</li></ul> |

| Parameter          | Type                                         | Description                                                                                                                                                                                         |
|--------------------|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| default_group_perm | String                                       | <b>Definition</b><br>Default consumer group permissions.<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>SUB</b>: subscribe permissions.</li><li>• <b>DENY</b>: no permission.</li></ul> |
| topic_perms        | Array of <a href="#">topic_perms</a> objects | <b>Definition</b><br>Special topic permissions.                                                                                                                                                     |
| group_perms        | Array of <a href="#">group_perms</a> objects | <b>Definition</b><br>Special consumer group permissions.                                                                                                                                            |

**Table 5-126** topic\_perms

| Parameter | Type   | Description                                                                                                                                                                                                                                                                               |
|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| name      | String | <b>Definition</b><br>Topic name.<br><b>Range</b><br>N/A                                                                                                                                                                                                                                   |
| perm      | String | <b>Definition</b><br>Topic permission.<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>PUB</b>: publish permissions.</li><li>• <b>SUB</b>: subscribe permissions.</li><li>• <b>PUB SUB</b>: subscribe and publish permissions.</li><li>• <b>DENY</b>: no permission.</li></ul> |

**Table 5-127** group\_perms

| Parameter | Type   | Description                                                      |
|-----------|--------|------------------------------------------------------------------|
| name      | String | <b>Definition</b><br>Consumer group name.<br><b>Range</b><br>N/A |

| Parameter | Type   | Description                                                                                                                                                                                 |
|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| perm      | String | <b>Definition</b><br>Consumer group permissions.<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>SUB</b>: subscribe permissions.</li><li>• <b>DENY</b>: no permission.</li></ul> |

## Example Requests

Querying user details

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

## Example Responses

**Status code: 200**

User details queried successfully.

```
{
  "access_key" : "test_01",
  "admin" : false,
  "default_group_perm" : "DENY",
  "default_topic_perm" : "SUB",
  "group_perms" : [ ],
  "secret_key" : "Abcd1234!",
  "topic_perms" : [ ],
  "white_remote_address" : ""
}
```

## Status Codes

| Status Code | Description                        |
|-------------|------------------------------------|
| 200         | User details queried successfully. |

## Error Codes

See [Error Codes](#).

## 5.5.5 Deleting a User

### Function

This API is used to delete a user.

### URI

```
DELETE /v2/{project_id}/instances/{instance_id}/users/{user_name}
```

**Table 5-128** Path Parameters

| Parameter   | Mandatory | Type   | Description                                                                                  |
|-------------|-----------|--------|----------------------------------------------------------------------------------------------|
| project_id  | Yes       | String | Project ID. For details about how to obtain it, see <a href="#">Obtaining a Project ID</a> . |
| instance_id | Yes       | String | Instance ID.                                                                                 |
| user_name   | Yes       | String | Username.                                                                                    |

## Request Parameters

None

## Response Parameters

**Status code: 200**

**Table 5-129** Response body parameters

| Parameter | Type   | Description  |
|-----------|--------|--------------|
| message   | String | Information. |

## Example Requests

Deleting a specified user

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

## Example Responses

**Status code: 200**

The deletion is successful.

```
{
  "message" : "delete user success."
}
```

## Status Codes

| Status Code | Description                 |
|-------------|-----------------------------|
| 200         | The deletion is successful. |

## Error Codes

See [Error Codes](#).

## 5.5.6 Querying Users Granted Permissions for a Topic

### Function

This API is used to query the list of users that have been granted permissions for a topic.

### URI

GET /v2/{project\_id}/instances/{instance\_id}/topics/{topic}/accesspolicy

**Table 5-130** Path Parameters

| Parameter   | Mandatory | Type   | Description                                                                                  |
|-------------|-----------|--------|----------------------------------------------------------------------------------------------|
| project_id  | Yes       | String | Project ID. For details about how to obtain it, see <a href="#">Obtaining a Project ID</a> . |
| instance_id | Yes       | String | Instance ID.                                                                                 |
| topic       | Yes       | String | Topic name.                                                                                  |

**Table 5-131** 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 | Number of records to query.                                                                         |

### Request Parameters

None

### Response Parameters

Status code: 200

**Table 5-132** Response body parameters

| Parameter | Type                                      | Description                          |
|-----------|-------------------------------------------|--------------------------------------|
| policies  | Array of <a href="#">policies</a> objects | User list.                           |
| total     | Number                                    | Total number of users.               |
| name      | String                                    | Name of the topic or consumer group. |

**Table 5-133** policies

| Parameter            | Type    | Description                                                                                                                                                                                                                                                                               |
|----------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| access_key           | String  | Username.                                                                                                                                                                                                                                                                                 |
| white_remote_address | String  | IP address whitelist.                                                                                                                                                                                                                                                                     |
| admin                | Boolean | <b>Definition</b><br>Whether the user is an administrator.<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>true</b>: Yes</li><li>• <b>false</b>: No</li></ul>                                                                                                                  |
| perm                 | String  | <b>Definition</b><br>User permissions.<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>PUB</b>: publish permissions.</li><li>• <b>SUB</b>: subscribe permissions.</li><li>• <b>PUB SUB</b>: subscribe and publish permissions.</li><li>• <b>DENY</b>: no permission.</li></ul> |

## Example Requests

Querying the list of users granted permissions for a topic

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

## Example Responses

**Status code: 200**

List of users granted permissions for a topic queried successfully.

```
{
  "policies" : [ {
    "access_key" : "dms_test",
    "white_remote_address" : "192.168.1.1",
```

```
"admin" : true,  
"perm" : "PUB|SUB"  
}],  
"total" : 0,  
"name" : "test"  
}
```

## Status Codes

| Status Code | Description                                                         |
|-------------|---------------------------------------------------------------------|
| 200         | List of users granted permissions for a topic queried successfully. |

## Error Codes

See [Error Codes](#).

## 5.5.7 Querying Users Granted Permissions for a Consumer Group

### Function

This API is used to query the list of users granted permissions for a consumer group.

### URI

GET /v2/{engine}/{project\_id}/instances/{instance\_id}/groups/{group}/accesspolicy

**Table 5-134** Path Parameters

| Parameter   | Mandatory | Type   | Description                                                                                  |
|-------------|-----------|--------|----------------------------------------------------------------------------------------------|
| engine      | Yes       | String | Message engine.                                                                              |
| project_id  | Yes       | String | Project ID. For details about how to obtain it, see <a href="#">Obtaining a Project ID</a> . |
| instance_id | Yes       | String | Instance ID.                                                                                 |
| group       | Yes       | String | Consumer group.                                                                              |

**Table 5-135** Query Parameters

| Parameter | Mandatory | Type    | Description                                                                             |
|-----------|-----------|---------|-----------------------------------------------------------------------------------------|
| offset    | No        | Integer | Offset, which is the position where the query starts. The value must be no less than 0. |

| Parameter | Mandatory | Type    | Description                 |
|-----------|-----------|---------|-----------------------------|
| limit     | No        | Integer | Number of records to query. |

## Request Parameters

None

## Response Parameters

Status code: 200

**Table 5-136** Response body parameters

| Parameter | Type                                      | Description                          |
|-----------|-------------------------------------------|--------------------------------------|
| policies  | Array of <a href="#">policies</a> objects | User list.                           |
| total     | Number                                    | Total number of users.               |
| name      | String                                    | Name of the topic or consumer group. |

**Table 5-137** policies

| Parameter            | Type    | Description                                                                                                                                                                                                                                                                               |
|----------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| access_key           | String  | Username.                                                                                                                                                                                                                                                                                 |
| white_remote_address | String  | IP address whitelist.                                                                                                                                                                                                                                                                     |
| admin                | Boolean | <b>Definition</b><br>Whether the user is an administrator.<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>true</b>: Yes</li><li>• <b>false</b>: No</li></ul>                                                                                                                  |
| perm                 | String  | <b>Definition</b><br>User permissions.<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>PUB</b>: publish permissions.</li><li>• <b>SUB</b>: subscribe permissions.</li><li>• <b>PUB SUB</b>: subscribe and publish permissions.</li><li>• <b>DENY</b>: no permission.</li></ul> |

## Example Requests

Querying the list of users granted permissions for a consumer group

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

## Example Responses

**Status code: 200**

List of users granted permissions for a consumer group queried.

```
{
  "policies" : {
    "access_key" : "test_01",
    "white_remote_address" : "",
    "admin" : false,
    "perm" : "PUB"
  },
  "total" : 1,
  "name" : "test"
}
```

## Status Codes

| Status Code | Description                                                     |
|-------------|-----------------------------------------------------------------|
| 200         | List of users granted permissions for a consumer group queried. |

## Error Codes

See [Error Codes](#).

# 5.6 Metadata Migration

## 5.6.1 Creating a Metadata Migration Task

### Function

This API is used to create a metadata migration task.

### URI

```
POST /v2/{project_id}/instances/{instance_id}/metadata
```

**Table 5-138** Path Parameters

| Parameter   | Mandatory | Type   | Description                                                                                  |
|-------------|-----------|--------|----------------------------------------------------------------------------------------------|
| project_id  | Yes       | String | Project ID. For details about how to obtain it, see <a href="#">Obtaining a Project ID</a> . |
| instance_id | Yes       | String | Instance ID.                                                                                 |

**Table 5-139** Query Parameters

| Parameter | Mandatory | Type   | Description                                                                                                                                                                              |
|-----------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| overwrite | Yes       | String | <b>true</b> : Configurations in the metadata file with the same name as the uploaded file will be overwritten. <b>false</b> : An error is reported when a topic or group already exists. |
| name      | Yes       | String | Migration task name. For details about the naming rules, see the API for creating an instance.                                                                                           |
| type      | Yes       | String | Migration task type. The value can be <b>rocketmq</b> or <b>rabbitToRocket</b> .                                                                                                         |

## Request Parameters

**Table 5-140** Request body parameters

| Parameter        | Mandatory | Type                                      | Description                                                                                                                                                                                                                     |
|------------------|-----------|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| topicConfigTable | No        | Map<String, MigrationRocketMqTopicConfig> | RocketMQ instance topic metadata. The topic name is the key and the topic configuration is the value. This parameter is mandatory for <b>rocketmq</b> migration tasks (from self-built RocketMQ instances to DMS for RocketMQ). |

| Parameter              | Mandatory | Type                                                             | Description                                                                                                                                                                                                                        |
|------------------------|-----------|------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| subscriptionGroupTable | No        | Map<String, <a href="#">MigrationRocketMqSubscriptionGroup</a> > | RocketMQ consumer group metadata. The consumer group name is the key and the configuration is the value. This parameter is mandatory for <b>rocketmq</b> migration tasks (from self-built RocketMQ instances to DMS for RocketMQ). |
| vhosts                 | No        | Array of <a href="#">MigrationRabbitVhostMetadata</a> objects    | RabbitMQ virtual host metadata list. This parameter is mandatory for <b>rabbitToRocket</b> migration tasks (from self-built RabbitMQ instances to DMS for RocketMQ).                                                               |
| queues                 | No        | Array of <a href="#">MigrationRabbitQueueMetadata</a> objects    | RabbitMQ queue metadata list. This parameter is mandatory for <b>rabbitToRocket</b> migration tasks (from self-built RabbitMQ instances to DMS for RocketMQ).                                                                      |
| exchanges              | No        | Array of <a href="#">MigrationRabbitExchangeMetadata</a> objects | RabbitMQ exchange metadata list. This parameter is mandatory for <b>rabbitToRocket</b> migration tasks (from self-built RabbitMQ instances to DMS for RocketMQ).                                                                   |
| bindings               | No        | Array of <a href="#">MigrationRabbitBindingMetadata</a> objects  | RabbitMQ binding metadata list. This parameter is mandatory for <b>rabbitToRocket</b> migration tasks (from self-built RabbitMQ instances to DMS for RocketMQ).                                                                    |

**Table 5-141** MigrationRocketMqTopicConfig

| Parameter | Mandatory | Type   | Description |
|-----------|-----------|--------|-------------|
| topicName | No        | String | Topic name. |

| Parameter       | Mandatory | Type    | Description                                                                                                                                                                                                                                                                                                                                        |
|-----------------|-----------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| order           | No        | Boolean | <b>Definition</b><br>Whether messages are ordered.<br><b>Constraints</b><br>N/A<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>true</b>: Yes</li><li>• <b>false</b>: No</li></ul> <b>Default Value</b><br>false                                                                                                                        |
| perm            | No        | Integer | <b>Definition</b><br>Topic permission.<br><b>Constraints</b><br>N/A<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>PUB</b>: publish permissions.</li><li>• <b>SUB</b>: subscribe permissions.</li><li>• <b>PUB SUB</b>: subscribe and publish permissions.</li><li>• <b>DENY</b>: no permission.</li></ul> <b>Default Value</b><br>N/A |
| readQueueNums   | No        | Integer | Number of read queues.                                                                                                                                                                                                                                                                                                                             |
| writeQueueNums  | No        | Integer | Number of write queues.                                                                                                                                                                                                                                                                                                                            |
| topicFilterType | No        | String  | Topic filtering type. <ul style="list-style-type: none"><li>• <b>SINGLE_TAG</b>: single tag</li><li>• <b>MULTI_TAG</b>: multiple tags</li></ul>                                                                                                                                                                                                    |
| topicSysFlag    | No        | Integer | Topic system flag.                                                                                                                                                                                                                                                                                                                                 |

**Table 5-142** MigrationRocketMqSubscriptionGroup

| Parameter | Mandatory | Type   | Description          |
|-----------|-----------|--------|----------------------|
| groupName | No        | String | Consumer group name. |

| Parameter                      | Mandatory | Type    | Description                                                                                                                                                                                                                   |
|--------------------------------|-----------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| consumeBroadcastEnable         | No        | Boolean | <b>Definition</b><br>Whether to allow broadcast.<br><b>Constraints</b><br>N/A<br><b>Range</b> <ul style="list-style-type: none"> <li>• <b>true:</b> Yes</li> <li>• <b>false:</b> No</li> </ul> <b>Default Value</b><br>false  |
| consumeEnable                  | No        | Boolean | <b>Definition</b><br>Whether to enable consumption.<br><b>Constraints</b><br>N/A<br><b>Range</b> <ul style="list-style-type: none"> <li>• <b>true:</b> Yes</li> <li>• <b>false:</b> No</li> </ul> <b>Default Value</b><br>N/A |
| consumeFromMinEnable           | No        | Boolean | Indicates whether to enable consumption from the earliest offset.                                                                                                                                                             |
| notifyConsumerIdsChangedEnable | No        | Boolean | Indicates whether to notify consumer ID changes.                                                                                                                                                                              |
| retryMaxTimes                  | No        | Integer | Maximum number of consumption retries.                                                                                                                                                                                        |
| retryQueueNums                 | No        | Integer | Number of retry queues.                                                                                                                                                                                                       |
| whichBrokerWhenConsumeSlow     | No        | Long    | ID of the broker selected for slow consumption.                                                                                                                                                                               |

**Table 5-143** MigrationRabbitVhostMetadata

| Parameter | Mandatory | Type   | Description        |
|-----------|-----------|--------|--------------------|
| name      | No        | String | Virtual host name. |

**Table 5-144** MigrationRabbitQueueMetadata

| Parameter | Mandatory | Type    | Description                                                                                                                                                                                                                        |
|-----------|-----------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| vhost     | No        | String  | Virtual host name.                                                                                                                                                                                                                 |
| name      | No        | String  | Queue name.                                                                                                                                                                                                                        |
| durable   | No        | Boolean | <b>Definition</b><br>Whether to enable data persistence.<br><b>Constraints</b><br>N/A<br><b>Range</b> <ul style="list-style-type: none"> <li>• <b>true</b>: Yes</li> <li>• <b>false</b>: No</li> </ul> <b>Default Value</b><br>N/A |

**Table 5-145** MigrationRabbitExchangeMetadata

| Parameter | Mandatory | Type   | Description        |
|-----------|-----------|--------|--------------------|
| vhost     | No        | String | Virtual host name. |
| name      | No        | String | Switch name.       |

| Parameter | Mandatory | Type    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------|-----------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| type      | No        | String  | <b>Definition</b><br>Exchange type.<br><b>Constraints</b><br>N/A<br><b>Range</b> <ul style="list-style-type: none"> <li>• <b>topic:</b> Fuzzy match by routing key is supported.</li> <li>• <b>direct:</b> Messages are routed in exact match by routing key.</li> <li>• <b>fanout:</b> broadcast mode. Messages are sent to all bound queues, regardless of routing keys.</li> <li>• <b>headers:</b> Routing is based on the key-value pair in the message header (headers) instead of on the routing key.</li> </ul> <b>Default Value</b><br>N/A |
| durable   | No        | Boolean | <b>Definition</b><br>Whether to enable data persistence.<br><b>Constraints</b><br>N/A<br><b>Range</b> <ul style="list-style-type: none"> <li>• <b>true:</b> Yes</li> <li>• <b>false:</b> No</li> </ul> <b>Default Value</b><br>N/A                                                                                                                                                                                                                                                                                                                 |

**Table 5-146** MigrationRabbitBindingMetadata

| Parameter   | Mandatory | Type   | Description        |
|-------------|-----------|--------|--------------------|
| vhost       | No        | String | Virtual host name. |
| source      | No        | String | Message source.    |
| destination | No        | String | Message target.    |

| Parameter        | Mandatory | Type   | Description                                                                                                                                                                           |
|------------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| destination_type | No        | String | <b>Definition</b><br>Target type.<br><b>Constraints</b><br>N/A<br><b>Range</b> <ul style="list-style-type: none"><li>• exchange</li><li>• queue</li></ul> <b>Default Value</b><br>N/A |
| routing_key      | No        | String | Routing key.                                                                                                                                                                          |

## Response Parameters

Status code: 200

**Table 5-147** Response body parameters

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

## Example Requests

- Creating a metadata migration task to migrate the metadata from other vendors' or self-built RocketMQ instances to DMS for RocketMQ.

POST https://{endpoint}/v2/{project\_id}/instances/{instance\_id}/metadata?  
overwrite=true&name=task-123&type=rocketmq

```
{
  "topicConfigTable" : {
    "topic-test1" : {
      "order" : false,
      "perm" : 6,
      "read_queue_nums" : 3,
      "topic_filter_type" : "SINGLE_TAG",
      "topic_name" : "topic-test1",
      "topic_sys_flag" : 0,
      "write_queue_nums" : 3
    }
  },
  "subscriptionGroupTable" : {
    "group-test1" : {
      "consume_broadcast_enable" : true,
      "consume_enable" : true,
      "consume_from_min_enable" : true,
      "group_name" : "group-test1",
      "notify_consumer_ids_changed_enable" : true,
      "retry_max_times" : 2,
      "retry_queue_nums" : 1,
      "which_broker_when_consume_slow" : 1
    }
  }
}
```

```
}  
}  
}
```

- Creating a metadata migration task to migrate the metadata of RabbitMQ instances to DMS for RocketMQ.

POST https://{endpoint}/v2/{project\_id}/instances/{instance\_id}/metadata?  
overwrite=true&name=task-123&type=rabbitToRocket

```
{  
  "vhosts" : [ {  
    "name" : "DeleteVhost123"  
  } ],  
  "queues" : [ {  
    "name" : "test-001",  
    "vhost" : "/",  
    "durable" : false  
  } ],  
  "exchanges" : [ {  
    "name" : "direct",  
    "vhost" : "/",  
    "type" : "topic",  
    "durable" : false  
  } ],  
  "bindings" : [ {  
    "source" : "direct",  
    "vhost" : "/",  
    "destination" : "test-001",  
    "destination_type" : "queue",  
    "routing_key" : "test-001"  
  } ]  
}
```

## Example Responses

**Status code: 200**

Successful

```
{  
  "task_id" : "6cf4dcd3-8471-4139-8b5b-8a3a71f704c7"  
}
```

## Status Codes

| Status Code | Description |
|-------------|-------------|
| 200         | Successful  |

## Error Codes

See [Error Codes](#).

## 5.6.2 Querying All Migration Tasks or a Specified Migration Task of an Instance

### Function

This API is used to query all migration tasks or a specified migration task of an instance.

### URI

GET /v2/{project\_id}/instances/{instance\_id}/metadata

**Table 5-148** Path Parameters

| Parameter   | Mandatory | Type   | Description                                                                                  |
|-------------|-----------|--------|----------------------------------------------------------------------------------------------|
| project_id  | Yes       | String | Project ID. For details about how to obtain it, see <a href="#">Obtaining a Project ID</a> . |
| instance_id | Yes       | String | Instance ID.                                                                                 |

**Table 5-149** Query Parameters

| Parameter | Mandatory | Type    | Description                                                                                                                                                                                                                                                  |
|-----------|-----------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id        | No        | String  | Task ID.                                                                                                                                                                                                                                                     |
| type      | No        | String  | <b>Definition</b><br>Query type.<br><b>Constraints</b><br>N/A<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>vhost</b>: virtual host</li><li>• <b>exchange</b></li><li>• <b>queue</b></li><li>• <b>all</b></li></ul> <b>Default Value</b><br>N/A |
| offset    | No        | Integer | Current page number, which starts from 1.                                                                                                                                                                                                                    |
| limit     | No        | Integer | Current page size.                                                                                                                                                                                                                                           |

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                                                                                            |
|-----------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| name      | No        | String | <ul style="list-style-type: none"><li>When the vhost list is queried, this field can be left empty.</li><li>When the exchange list is queried, set this field to the name of the vhost to which the exchange belongs.</li><li>When the queue list is queried, set this field to <i>vhost of the queue's exchange-queue's exchange</i>, for example, <b>vhost1-exchange1</b>.</li></ul> |

Request Parameters

None

Response Parameters

Status code: 200

Table 5-150 Response body parameters

| Parameter | Type                                          | Description                               |
|-----------|-----------------------------------------------|-------------------------------------------|
| total     | Integer                                       | Total number of metadata migration tasks. |
| task      | Array of <a href="#">MetadataTask</a> objects | List of metadata migration tasks.         |

Table 5-151 MetadataTask

| Parameter  | Type   | Description                              |
|------------|--------|------------------------------------------|
| id         | String | ID of a metadata migration task.         |
| name       | String | Name of a metadata migration task.       |
| start_date | String | Start time of a metadata migration task. |

| Parameter | Type   | Description                                                                                                                                                                                                                                            |
|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| status    | String | <b>Definition</b><br>Status of a metadata migration task.<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>creating</b></li><li>• <b>starting</b>: The migration is in progress.</li><li>• <b>failed</b></li><li>• <b>finished</b></li></ul> |
| type      | String | <b>Definition</b><br>Metadata migration type.<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>rocketmq</b>: from RocketMQ to RocketMQ.</li><li>• <b>rabbitToRocket</b>: from RabbitMQ to RocketMQ.</li></ul>                                |

## Example Requests

Querying all migration tasks of a RocketMQ instance

GET https://{endpoint}/v2/{project\_id}/instances/{instance\_id}/metadata

## Example Responses

**Status code: 200**

Returned status code.

```
{
  "total" : 1,
  "task" : [ {
    "id" : "6cf4dcd3-8471-4139-8b5b-8a3a71f704c7",
    "name" : "task-932331847",
    "start_date" : "2023-03-13 19:43:32.12",
    "status" : "finished",
    "type" : "rabbitToRocket"
  } ]
}
```

## Status Codes

| Status Code | Description           |
|-------------|-----------------------|
| 200         | Returned status code. |

## Error Codes

See [Error Codes](#).

### 5.6.3 Deleting Metadata Migration Tasks in Batches

#### Function

This API is used to delete metadata migration tasks in batches.

#### URI

POST /v2/{project\_id}/instances/{instance\_id}/metadata/batch-delete

**Table 5-152** Path Parameters

| Parameter   | Mandatory | Type   | Description                                                                                  |
|-------------|-----------|--------|----------------------------------------------------------------------------------------------|
| project_id  | Yes       | String | Project ID. For details about how to obtain it, see <a href="#">Obtaining a Project ID</a> . |
| instance_id | Yes       | String | Instance ID.                                                                                 |

#### Request Parameters

**Table 5-153** Request body parameters

| Parameter | Mandatory | Type             | Description          |
|-----------|-----------|------------------|----------------------|
| task_ids  | Yes       | Array of strings | Tasks to be deleted. |

#### Response Parameters

**Status code:** 200

**Table 5-154** Response body parameters

| Parameter         | Type             | Description                                                                              |
|-------------------|------------------|------------------------------------------------------------------------------------------|
| success_task_list | Array of strings | <b>Definition</b><br>List of tasks that are successfully deleted.<br><b>Range</b><br>N/A |

## Example Requests

Deleting metadata migration tasks in batches

```
POST https://{endpoint}/v2/{project_id}/instances/{instance_id}/metadata/batch-delete
{
  "task_ids" : [ "1b8f2c93-8057-4bdd-9be5-5b6883737099", "fa89699b-61b9-497d-b1ac-972623f3c0ce" ]
}
```

## Example Responses

**Status code: 200**

Metadata migration tasks deleted in batches.

```
{
  "success_task_list" : [ "1b8f2c93-8057-4bdd-9be5-5b6883737099", "fa89699b-61b9-497d-b1ac-972623f3c0ce" ]
}
```

## Status Codes

| Status Code | Description                                  |
|-------------|----------------------------------------------|
| 200         | Metadata migration tasks deleted in batches. |

## Error Codes

See [Error Codes](#).

# 5.7 Managing Parameters

## 5.7.1 Querying RocketMQ Configurations

### Function

This API is used to query RocketMQ configurations. Configuration details will be returned.

### URI

GET /v2/{project\_id}/rocketmq/instances/{instance\_id}/configs

Table 5-155 Path Parameters

| Parameter   | Mandatory | Type   | Description                                                                                                                                                                                                                              |
|-------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id  | Yes       | String | <b>Definition</b><br>Project ID. For details about how to obtain it, see <a href="#">Obtaining a Project ID</a> .<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A                                     |
| instance_id | Yes       | String | <b>Definition</b><br>Instance ID. You can call the API for querying all instances to obtain the instance ID. The instance ID is in the response body.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A |

Request Parameters

None

Response Parameters

Status code: 200

Table 5-156 Response body parameters

| Parameter | Type   | Description                                               |
|-----------|--------|-----------------------------------------------------------|
| total     | Number | <b>Definition</b><br>Total number.<br><b>Range</b><br>N/A |

| Parameter        | Type                                                | Description                                                              |
|------------------|-----------------------------------------------------|--------------------------------------------------------------------------|
| next_offset      | Integer                                             | <b>Definition</b><br>Offset of the next page.<br><b>Range</b><br>N/A     |
| previous_offset  | Integer                                             | <b>Definition</b><br>Offset of the previous page.<br><b>Range</b><br>N/A |
| rocketmq_configs | Array of <a href="#">RocketMQConfigResp</a> objects | <b>Definition</b><br>RocketMQ configuration.                             |

**Table 5-157** RocketMQConfigResp

| Parameter     | Type   | Description                                                                                                                              |
|---------------|--------|------------------------------------------------------------------------------------------------------------------------------------------|
| name          | String | <b>Definition</b><br>RocketMQ configuration name.<br><b>Range</b><br>N/A                                                                 |
| value         | String | <b>Definition</b><br>RocketMQ configuration current value.<br><b>Range</b><br>N/A                                                        |
| config_type   | String | <b>Definition</b><br>RocketMQ configuration type.<br><b>Range</b> <ul style="list-style-type: none"><li>dynamic</li><li>static</li></ul> |
| default_value | String | <b>Definition</b><br>RocketMQ configuration default value.<br><b>Range</b><br>N/A                                                        |
| valid_values  | String | <b>Definition</b><br>RocketMQ configuration value range.<br><b>Range</b><br>N/A                                                          |

| Parameter  | Type   | Description                                                                                                                                     |
|------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| value_type | String | <b>Definition</b><br>RocketMQ configuration value type.<br><b>Range</b> <ul style="list-style-type: none"><li>integer</li><li>boolean</li></ul> |

## Example Requests

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

## Example Responses

**Status code: 200**

Successful.

```
{
  "total" : 1,
  "next_offset" : -1,
  "previous_offset" : -1,
  "rocketmq_configs" : [ {
    "name" : "fileReservedTime",
    "value" : 48,
    "config_type" : "dynamic",
    "default_value" : 48,
    "valid_values" : "1~720",
    "value_type" : "integer"
  } ]
}
```

## Status Codes

| Status Code | Description |
|-------------|-------------|
| 200         | Successful. |

## Error Codes

See [Error Codes](#).

## 5.7.2 Modifying RocketMQ Configurations

### Function

This API is used to modify RocketMQ configurations.

### URI

PUT /v2/{project\_id}/rocketmq/instances/{instance\_id}/configs

**Table 5-158** Path Parameters

| Parameter   | Mandatory | Type   | Description                                                                                  |
|-------------|-----------|--------|----------------------------------------------------------------------------------------------|
| project_id  | Yes       | String | Project ID. For details about how to obtain it, see <a href="#">Obtaining a Project ID</a> . |
| instance_id | Yes       | String | Instance ID.                                                                                 |

## Request Parameters

**Table 5-159** Request body parameters

| Parameter        | Mandatory | Type                                               | Description             |
|------------------|-----------|----------------------------------------------------|-------------------------|
| rocketmq_configs | Yes       | Array of <a href="#">RocketMQConfigReq</a> objects | RocketMQ configuration. |

**Table 5-160** RocketMQConfigReq

| Parameter | Mandatory | Type   | Description                          |
|-----------|-----------|--------|--------------------------------------|
| name      | Yes       | String | RocketMQ configuration name.         |
| value     | Yes       | String | RocketMQ configuration target value. |

## Response Parameters

**Status code: 204**

Successful.

None

## Example Requests

Modifying RocketMQ configurations with file retention period changed to 72 hours.

```
PUT https://{endpoint}/v2/{project_id}/rocketmq/instances/{instance_id}/configs
{
  "rocketmq_configs": [ {
    "name": "fileReservedTime",
    "value": 72
  } ]
}
```

## Example Responses

None

## Status Codes

| Status Code | Description |
|-------------|-------------|
| 204         | Successful. |

## Error Codes

See [Error Codes](#).

# 5.8 Tag Management

## 5.8.1 Adding or Deleting Instance Tags in Batches

### Function

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

### URI

POST /v2/{project\_id}/rocketmq/{instance\_id}/tags/action

**Table 5-161** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                          |
|------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | <b>Definition</b><br>Project ID. For details about how to obtain it, see <a href="#">Obtaining a Project ID</a> .<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A |

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

## Request Parameters

**Table 5-162** Request body parameters

| Parameter | Mandatory | Type                              | Description                                                                                                                                                                    |
|-----------|-----------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| action    | Yes       | String                            | Operation. Only lowercase letters are supported. <ul style="list-style-type: none"><li>• <b>create</b>: Tags are created.</li><li>• <b>delete</b>: Tags are deleted.</li></ul> |
| tags      | Yes       | Array of <b>TagEntity</b> objects | <b>Definition</b><br>Tag list.<br><b>Constraints</b><br>A maximum of 20 tags can be added to a RocketMQ instance.                                                              |

Table 5-163 TagEntity

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                        |
|-----------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| key       | Yes       | String | Tag key. <ul style="list-style-type: none"><li>• Must be specified.</li><li>• Must be unique for the same instance.</li><li>• Can contain 1 to 128 characters.</li><li>• Can contain letters, digits, spaces, and special characters _.:=-+@</li><li>• Cannot start or end with a space.</li></ul> |
| value     | Yes       | String | Tag value. <ul style="list-style-type: none"><li>• Can contain 0 to 255 characters.</li><li>• Can contain letters, digits, spaces, and special characters _.:=-+@</li><li>• Cannot start or end with a space.</li></ul>                                                                            |

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}/rocketmq/{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](#).

## 5.8.2 Querying Instance Tags

### Function

This API is used to query instance tags.

### URI

GET /v2/{project\_id}/rocketmq/{instance\_id}/tags

**Table 5-164** Path Parameters

| Parameter   | Mandatory | Type   | Description                                                                                  |
|-------------|-----------|--------|----------------------------------------------------------------------------------------------|
| project_id  | Yes       | String | Project ID. For details about how to obtain it, see <a href="#">Obtaining a Project ID</a> . |
| instance_id | Yes       | String | Instance ID.                                                                                 |

### Request Parameters

None

### Response Parameters

**Status code: 200**

**Table 5-165** Response body parameters

| Parameter       | Type    | Description                  |
|-----------------|---------|------------------------------|
| total           | Number  | Total.                       |
| next_offset     | Integer | Offset of the next page.     |
| previous_offset | Integer | Offset of the previous page. |

| Parameter | Type                                       | Description |
|-----------|--------------------------------------------|-------------|
| tags      | Array of <a href="#">TagEntity</a> objects | Tag list.   |

**Table 5-166** TagEntity

| Parameter | Type   | Description                                                                                                                                                                                                                                                                                       |
|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| key       | String | Tag key. <ul style="list-style-type: none"><li>• Must be specified.</li><li>• Must be unique for the same instance.</li><li>• Can contain 1 to 128 characters.</li><li>• Can contain letters, digits, spaces, and special characters _.:=-@</li><li>• Cannot start or end with a space.</li></ul> |
| value     | String | Tag value. <ul style="list-style-type: none"><li>• Can contain 0 to 255 characters.</li><li>• Can contain letters, digits, spaces, and special characters _.:=-@</li><li>• Cannot start or end with a space.</li></ul>                                                                            |

## Example Requests

Querying instance tags

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

## Example Responses

**Status code: 200**

Instance tags queried successfully.

```
{
  "total": 1,
  "next_offset": -1,
  "previous_offset": -1,
  "tags": [ {
    "key": "key1",
    "value": "value1"
  }, {
    "key": "key2",
    "value": "value2"
  } ]
}
```

Status Codes

| Status Code | Description                         |
|-------------|-------------------------------------|
| 200         | Instance tags queried successfully. |

Error Codes

See [Error Codes](#).

5.8.3 Querying Project Tags

Function

This API is used to query tags of a project.

URI

GET /v2/{project\_id}/rocketmq/tags

Table 5-167 Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                          |
|------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | <b>Definition</b><br>Project ID. For details about how to obtain it, see <a href="#">Obtaining a Project ID</a> .<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A |

Request Parameters

None

Response Parameters

Status code: 200

Table 5-168 Response body parameters

| Parameter       | Type                                 | Description                                                              |
|-----------------|--------------------------------------|--------------------------------------------------------------------------|
| total           | Number                               | <b>Definition</b><br>Total number.<br><b>Range</b><br>N/A                |
| next_offset     | Integer                              | <b>Definition</b><br>Offset of the next page.<br><b>Range</b><br>N/A     |
| previous_offset | Integer                              | <b>Definition</b><br>Offset of the previous page.<br><b>Range</b><br>N/A |
| tags            | Array of TagMultyValueEntity objects | <b>Definition</b><br>Tag list.                                           |

Table 5-169 TagMultyValueEntity

| Parameter | Type             | Description                                          |
|-----------|------------------|------------------------------------------------------|
| key       | String           | <b>Definition</b><br>Tag key.<br><b>Range</b><br>N/A |
| values    | Array of strings | <b>Definition</b><br>Tag value.                      |

Example Requests

Querying project tags

GET https://{endpoint}/v2/{project\_id}/rocketmq/tags

Example Responses

Status code: 200

The project tags are queried successfully.

```
{  
  "total" : 1,
```

```
"next_offset" : -1,
"previous_offset" : -1,
"tags" : [ {
  "key" : "key1",
  "values" : [ "value-test", "value1" ]
}, {
  "key" : "key2",
  "values" : [ "value2" ]
} ]
}
```

Status Codes

| Status Code | Description                                |
|-------------|--------------------------------------------|
| 200         | The project tags are queried successfully. |

Error Codes

See [Error Codes](#).

5.9 Specification Modification Management

5.9.1 Querying Product Information for Instance Specification Modification

Function

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

URI

GET /v2/{engine}/{project\_id}/instances/{instance\_id}/extend

Table 5-170 Path Parameters

| Parameter   | Mandatory | Type   | Description                                                                                  |
|-------------|-----------|--------|----------------------------------------------------------------------------------------------|
| engine      | Yes       | String | Message engine, which is <b>rocketmq</b> .                                                   |
| project_id  | Yes       | String | Project ID. For details about how to obtain it, see <a href="#">Obtaining a Project ID</a> . |
| instance_id | Yes       | String | Instance ID.                                                                                 |

**Table 5-171** Query Parameters

| Parameter | Mandatory | Type   | Description                                          |
|-----------|-----------|--------|------------------------------------------------------|
| type      | No        | String | Type of a product. <b>advanced:</b> DMS for RocketMQ |

## Request Parameters

None

## Response Parameters

Status code: 200

**Table 5-172** Response body parameters

| Parameter       | Type                                                    | Description                                                                                                                                                                                                        |
|-----------------|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| total           | Number                                                  | Total.                                                                                                                                                                                                             |
| next_offset     | Integer                                                 | Offset of the next page.                                                                                                                                                                                           |
| previous_offset | Integer                                                 | Offset of the previous page.                                                                                                                                                                                       |
| engine          | String                                                  | <b>Definition</b><br>Message engine type.<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>rocketmq</b>: RocketMQ message engine.</li><li>• <b>reliability</b>: RocketMQ message engine alias.</li></ul> |
| versions        | Array of strings                                        | Versions supported by the message engine.                                                                                                                                                                          |
| products        | Array of <b>RocketMQExtendProductInfoEntity</b> objects | Product information for specification modification.                                                                                                                                                                |

Table 5-173 RocketMQExtendProductInfoEntity

| Parameter | Type   | Description                                                                                                                                                                                                                                                                                                                                                                     |
|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| type      | String | <b>Definition</b><br>Instance type.<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>single</b>: 4.8.0 single-node.</li><li>• <b>cluster</b>: 4.8.0 cluster</li><li>• <b>single.basic</b>: 5.x single-node basic edition.</li><li>• <b>cluster.basic</b>: 5.x cluster basic edition</li><li>• <b>cluster.professional</b>: 5.x cluster professional edition</li></ul> |

| Parameter  | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| product_id | String | <p><b>Definition</b><br/>RocketMQ instance flavors.</p> <p><b>Range</b></p> <ul style="list-style-type: none"> <li>• <b>c6.4u8g.cluster.small</b>: Max. 2,000 topics and 2,000 consumer groups per broker</li> <li>• <b>c6.4u8g.cluster</b>: Max. 4,000 topics and 4,000 consumer groups per broker</li> <li>• <b>c6.8u16g.cluster</b>: Max. 8,000 topics and 8,000 consumer groups per broker</li> <li>• <b>c6.12u24g.cluster</b>: Max. 12,000 topics and 12,000 consumer groups per broker</li> <li>• <b>c6.16u32g.cluster</b>: Max. 16,000 topics and 16,000 consumer groups per broker</li> <li>• <b>rocketmq.b1.large.1</b>: RocketMQ 5.x basic edition single-node flavor, instance TPS 500</li> <li>• <b>rocketmq.b2.large.4</b>: RocketMQ 5.x basic edition cluster flavor, instance TPS 2,000</li> <li>• <b>rocketmq.b2.large.8</b>: RocketMQ 5.x basic edition cluster flavor, instance TPS 4,000</li> <li>• <b>rocketmq.b2.large.12</b>: RocketMQ 5.x basic edition cluster flavor, instance TPS 6,000</li> <li>• <b>rocketmq.p1.large.1</b>: RocketMQ 5.x professional edition single-node flavor, instance TPS 500</li> <li>• <b>rocketmq.p2.large.8</b>: RocketMQ 5.x professional edition cluster flavor, instance TPS 4,000</li> <li>• <b>rocketmq.p2.large.12</b>: RocketMQ 5.x professional edition cluster flavor, instance TPS 6,000</li> <li>• <b>rocketmq.p2.large.20</b>: RocketMQ 5.x professional edition cluster flavor, instance TPS 10,000</li> <li>• <b>rocketmq.p2.large.40</b>: RocketMQ 5.x professional edition cluster flavor, instance TPS 20,000</li> </ul> |

| Parameter         | Type                                                            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   |                                                                 | <ul style="list-style-type: none"><li>• <b>rocketmq.p2.large.100</b>: RocketMQ 5.x professional edition cluster flavor, instance TPS 50,000</li><li>• <b>rocketmq.p2.large.150</b>: RocketMQ 5.x professional edition cluster flavor, instance TPS 75,000</li><li>• <b>rocketmq.p2.large.200</b>: RocketMQ 5.x professional edition cluster flavor, instance TPS 100,000</li><li>• <b>rocketmq.p2.large.300</b>: RocketMQ 5.x professional edition cluster flavor, instance TPS 150,000</li></ul> |
| ecs_flavor_id     | String                                                          | ECS flavor used by the product.                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| billing_code      | String                                                          | <b>Definition</b><br>Billing mode.<br><b>Range</b><br>Billing mode. <ul style="list-style-type: none"><li>• <b>dms.rocketmq.basic.single.tps</b>: single-node RocketMQ 5.x basic edition.</li><li>• <b>dms.rocketmq.basic.cluster.tps</b>: cluster RocketMQ 5.x basic edition.</li><li>• <b>dms.rocketmq.pro.single.tps</b>: single-node RocketMQ 5.x professional edition.</li><li>• <b>dms.rocketmq.pro.cluster.tps</b>: cluster RocketMQ 5.x professional edition.</li></ul>                   |
| arch_types        | Array of strings                                                | Supported CPU architectures.                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| charging_mode     | Array of strings                                                | Supported billing modes.                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| ios               | Array of <a href="#">RocketMQExtendProductIosEntity</a> objects | Disk I/O object information.                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| properties        | <a href="#">RocketMQExtendProductPropertiesEntity</a> object    | Key-value pair of a feature.                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| available_zones   | Array of strings                                                | AZs where there are available resources.                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| unavailable_zones | Array of strings                                                | AZs where resources are sold out.                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

| Parameter             | Type                                                                  | Description                                                                                                                                                                   |
|-----------------------|-----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| support_features      | Array of <a href="#">RocketMQProductSupportFeaturesEntity</a> objects | Supported feature list.                                                                                                                                                       |
| qingtian_incompatible | Boolean                                                               | <b>Definition</b><br>Whether the instance is a QingTian one.<br><b>Range</b> <ul style="list-style-type: none"> <li>• <b>true</b>: Yes</li> <li>• <b>false</b>: No</li> </ul> |

**Table 5-174** RocketMQExtendProductIosEntity

| Parameter         | Type             | Description                                                                                                               |
|-------------------|------------------|---------------------------------------------------------------------------------------------------------------------------|
| io_spec           | String           | Storage I/O specification.                                                                                                |
| available_zones   | Array of strings | AZs where there are available resources.                                                                                  |
| type              | String           | <b>Definition</b><br>I/O type.<br><b>Range</b> <ul style="list-style-type: none"> <li>• <b>evs</b>: Disk type.</li> </ul> |
| unavailable_zones | Array of strings | AZs where resources are sold out.                                                                                         |

**Table 5-175** RocketMQExtendProductPropertiesEntity

| Parameter               | Type   | Description                                                                                    |
|-------------------------|--------|------------------------------------------------------------------------------------------------|
| max_broker              | String | Maximum number of brokers (displayed only for RocketMQ 4.8.0).                                 |
| max_topic_per_broker    | String | Maximum number of topics that can be created on each node (displayed only for RocketMQ 4.8.0). |
| max_consumer_per_broker | String | Maximum number of consumers on each node (displayed only for RocketMQ 4.8.0).                  |
| min_broker              | String | Minimum number of brokers (displayed only for RocketMQ 4.8.0).                                 |

| Parameter            | Type   | Description                                                                                                                       |
|----------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------|
| engine_versions      | String | <b>Definition</b><br>Message engine version.<br><b>Range</b> <ul style="list-style-type: none"> <li>4.8.0</li> <li>5.x</li> </ul> |
| max_storage_per_node | String | Maximum storage space of each broker. Unit: GB.                                                                                   |
| min_storage_per_node | String | Minimum storage space of each broker. The unit is GB.                                                                             |
| product_alias        | String | Alias of <b>product_id</b> .                                                                                                      |
| feature              | String | Feature switch of the specification. (This field is available only for RocketMQ 5.x instances.)                                   |
| max_topic            | String | Maximum number of topics in an instance (displayed only for RocketMQ 5.x).                                                        |
| broker_num           | String | Number of brokers (displayed only for RocketMQ 5.x).                                                                              |
| core                 | String | Number of billing cores in an instance (displayed only for RocketMQ 5.x).                                                         |
| max_consumer         | String | Maximum number of consumers in an instance (displayed only for RocketMQ 5.x).                                                     |
| rcu                  | String | Traffic unit, $rcu \times max\_tpc\_per\_rcu =$ Maximum flavor TPS (displayed only for RocketMQ 5.x).                             |
| max_storage          | String | Maximum storage space (displayed only for RocketMQ 5.x).                                                                          |
| min_storage          | String | Minimum storage space (displayed only for RocketMQ 5.x).                                                                          |
| max_tps_per_rcu      | String | Maximum TPS per RCU (displayed only for RocketMQ 5.x).                                                                            |
| elastic_tps          | String | Elastic TPS (displayed only for RocketMQ 5.x).                                                                                    |

**Table 5-176** RocketMQProductSupportFeaturesEntity

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

## Example Requests

Querying the product information for instance modification

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

## Example Responses

**Status code: 200**

Product information for instance specification modification queried.

```
{
  "total": 1,
  "next_offset": -1,
  "previous_offset": -1,
  "engine": "rocketmq",
  "versions": [ "4.8.0" ],
  "products": [ {
    "type": "cluster.small",
    "product_id": "c6.4u8g.cluster.small",
    "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",
      "available_zones": [ "xxx" ],
      "type": "evs",
      "unavailable_zones": [ "xxx" ]
    }, {
      "io_spec": "dms.physical.storage.ultra.v2",
      "available_zones": [ ],
      "type": "evs",
      "unavailable_zones": [ "xxx" ]
    } ],
    "support_features": [ ],
    "properties": {
      "max_broker": "2",
      "max_topic_per_broker": "2000",
      "max_storage_per_node": "30000",
      "max_consumer_per_broker": "2000",
      "min_broker": "1",
      "product_alias": "rocketmq.4u8g.cluster.small",
      "engine_versions": "4.8.0",
      "min_storage_per_node": "300"
    },
    "available_zones": [ "xxx" ],
    "unavailable_zones": [ "xxx" ],
    "qingtian_incompatible": false
  }, {
    "type": "cluster",
    "product_id": "c6.4u8g.cluster",
    "ecs_flavor_id": "s6.xlarge.2",
    "billing_code": "dms.platinum.c6",
```

```
"arch_types" : [ "X86" ],
"charging_mode" : [ "monthly", "hourly" ],
"ios" : [ {
  "io_spec" : "dms.physical.storage.ultra.v2",
  "available_zones" : [ ],
  "type" : "evs",
  "unavailable_zones" : [ "xxx" ]
}, {
  "io_spec" : "dms.physical.storage.high.v2",
  "available_zones" : [ "xxx" ],
  "type" : "evs",
  "unavailable_zones" : [ "xxx" ]
} ],
"support_features" : [ ],
"properties" : {
  "max_broker" : "10",
  "max_topic_per_broker" : "4000",
  "max_storage_per_node" : "60000",
  "max_consumer_per_broker" : "4000",
  "min_broker" : "1",
  "product_alias" : "rocketmq.4u8g.cluster",
  "engine_versions" : "4.8.0",
  "min_storage_per_node" : "300"
},
"available_zones" : [ "xxx" ],
"unavailable_zones" : [ "xxx" ],
"qingtian_incompatible" : false
}, {
  "type" : "cluster",
  "product_id" : "c6.8u16g.cluster",
  "ecs_flavor_id" : "c6s.2xlarge.2",
  "billing_code" : "dms.platinum.c6",
  "arch_types" : [ "X86" ],
  "charging_mode" : [ "monthly", "hourly" ],
  "ios" : [ {
    "io_spec" : "dms.physical.storage.high.v2",
    "available_zones" : [ "xxx" ],
    "type" : "evs",
    "unavailable_zones" : [ "xxx" ]
  }, {
    "io_spec" : "dms.physical.storage.ultra.v2",
    "available_zones" : [ ],
    "type" : "evs",
    "unavailable_zones" : [ "xxx" ]
  } ],
  "support_features" : [ ],
  "properties" : {
    "max_broker" : "10",
    "max_topic_per_broker" : "8000",
    "max_storage_per_node" : "90000",
    "max_consumer_per_broker" : "8000",
    "min_broker" : "1",
    "product_alias" : "rocketmq.8u16g.cluster",
    "engine_versions" : "4.8.0",
    "min_storage_per_node" : "300"
  },
  "available_zones" : [ "xxx" ],
  "unavailable_zones" : [ "xxx" ],
  "qingtian_incompatible" : false
}, {
  "type" : "cluster",
  "product_id" : "c6.12u24g.cluster",
  "ecs_flavor_id" : "c6s.3xlarge.2",
  "billing_code" : "dms.platinum.c6",
  "arch_types" : [ "X86" ],
  "charging_mode" : [ "monthly", "hourly" ],
  "ios" : [ {
    "io_spec" : "dms.physical.storage.ultra.v2",
    "available_zones" : [ ],
```

```
{
  "type": "evs",
  "unavailable_zones": [ "xxx" ]
}, {
  "io_spec": "dms.physical.storage.high.v2",
  "available_zones": [ "xxx" ],
  "type": "evs",
  "unavailable_zones": [ "xxx" ]
}],
"support_features": [ ],
"properties": {
  "max_broker": "10",
  "max_topic_per_broker": "12000",
  "max_storage_per_node": "90000",
  "max_consumer_per_broker": "12000",
  "min_broker": "1",
  "product_alias": "rocketmq.12u24g.cluster",
  "engine_versions": "4.8.0",
  "min_storage_per_node": "300"
},
"available_zones": [ "xxx" ],
"unavailable_zones": [ "xxx" ],
"qingtian_incompatible": false
}, {
  "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",
    "available_zones": [ "xxx" ],
    "type": "evs",
    "unavailable_zones": [ "xxx" ]
  } ],
  {
    "io_spec": "dms.physical.storage.ultra.v2",
    "available_zones": [ ],
    "type": "evs",
    "unavailable_zones": [ "xxx" ]
  } ],
  "support_features": [ ],
  "properties": {
    "max_broker": "10",
    "max_topic_per_broker": "16000",
    "max_storage_per_node": "90000",
    "max_consumer_per_broker": "16000",
    "min_broker": "1",
    "product_alias": "rocketmq.16u32g.cluster",
    "engine_versions": "4.8.0",
    "min_storage_per_node": "300"
  },
  "available_zones": [ "xxx" ],
  "unavailable_zones": [ "xxx" ],
  "qingtian_incompatible": false
} ] }
```

## Status Codes

| Status Code | Description                                                          |
|-------------|----------------------------------------------------------------------|
| 200         | Product information for instance specification modification queried. |

## Error Codes

See [Error Codes](#).

## 5.9.2 Modifying Instance Specifications

### Function

This API is used to change instance specifications.

### URI

POST /v2/{engine}/{project\_id}/instances/{instance\_id}/extend

**Table 5-177** Path Parameters

| Parameter   | Mandatory | Type   | Description                                                                                  |
|-------------|-----------|--------|----------------------------------------------------------------------------------------------|
| engine      | Yes       | String | Message engine, which is <b>rocketmq</b> .                                                   |
| project_id  | Yes       | String | Project ID. For details about how to obtain it, see <a href="#">Obtaining a Project ID</a> . |
| instance_id | Yes       | String | Instance ID.                                                                                 |

### Request Parameters

**Table 5-178** Request body parameters

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| oper_type | Yes       | String | Change type.<br>Value range: <ul style="list-style-type: none"><li>• <b>storage</b>: Expand the storage without changing the broker quantity.</li><li>• <b>horizontal</b>: Scale up the RocketMQ 5.x instance specification. Increase the RocketMQ 4.8.0 broker quantity.</li><li>• <b>vertical</b>: Scale up the broker flavor without changing the broker quantity and storage. Only available for RocketMQ 4.8.0.</li></ul> |

| Parameter         | Mandatory | Type    | Description                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------|-----------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| new_storage_space | No        | Integer | This parameter is valid and mandatory when <b>oper_type</b> is set to <b>storage</b> . <ul style="list-style-type: none"><li>• If <b>oper_type</b> is set to <b>storage</b>, the storage space of each broker must be expanded by at least 100 GB.</li><li>• If <b>oper_type</b> is set to <b>horizontal</b>, the storage space of each broker remains unchanged.</li></ul> |
| new_product_id    | No        | String  | <ul style="list-style-type: none"><li>• For RocketMQ 5.x: this parameter is valid and mandatory if <b>oper_type</b> is set to <b>horizontal</b>.</li><li>• For RocketMQ 4.8.0: this parameter is valid and mandatory if <b>oper_type</b> is set to <b>vertical</b>.</li></ul>                                                                                               |
| new_broker_num    | No        | Integer | Broker quantity.<br>This parameter is mandatory when <b>oper_type</b> is set to <b>horizontal</b> .                                                                                                                                                                                                                                                                         |
| publicip_id       | No        | String  | ID of the EIP bound to the instance.<br>Use commas (,) to separate multiple EIP IDs.<br>This parameter is mandatory when <b>oper_type</b> is <b>horizontal</b> and public access is enabled.                                                                                                                                                                                |

## Response Parameters

Status code: 200

Table 5-179 Response body parameters

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

## Example Requests

```
POST https://{endpoint}/v2/rocketmq/{project_id}/instances/{instance_id}/extend
{
  "oper_type": "horizontal",
  "new_product_id": "rocketmq.b2.large.8"
}
```

## Example Responses

**Status code: 200**

Instance specifications modified.

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

## Status Codes

| Status Code | Description                       |
|-------------|-----------------------------------|
| 200         | Instance specifications modified. |

## Error Codes

See [Error Codes](#).

## 5.9.3 Querying Pre-check Information Before Expanding a RocketMQ Instance

### Function

This API is used to obtain pre-check information before expanding a RocketMQ instance.

### URI

GET /v2/{project\_id}/rocketmq/instances/{instance\_id}/extend-check

Table 5-180 Path Parameters

| Parameter   | Mandatory | Type   | Description                                                                                                                                                                                                                              |
|-------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id  | Yes       | String | <b>Definition</b><br>Project ID. For details about how to obtain it, see <a href="#">Obtaining a Project ID</a> .<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A                                     |
| instance_id | Yes       | String | <b>Definition</b><br>Instance ID. You can call the API for querying all instances to obtain the instance ID. The instance ID is in the response body.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A |

Request Parameters

None

Response Parameters

Status code: 200

Table 5-181 Response body parameters

| Parameter | Type   | Description                                                  |
|-----------|--------|--------------------------------------------------------------|
| name      | String | <b>Definition</b><br>Check item name.<br><b>Range</b><br>N/A |

| Parameter | Type    | Description                                                                                                                                                                                          |
|-----------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| success   | Boolean | <b>Definition</b><br>Check item status.<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>true</b>: The check item is normal.</li><li>• <b>false</b>: The check item is abnormal.</li></ul> |
| reason    | String  | <b>Definition</b><br>Failure cause.<br><b>Range</b><br>N/A                                                                                                                                           |
| risk      | String  | <b>Definition</b><br>Risk level.<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>low</b></li><li>• <b>medium</b></li><li>• <b>high</b></li></ul>                                          |

## Example Requests

GET https://{endpoint}/v2/{project\_id}/rocketmq/instances/{instance\_id}/extend-check

## Example Responses

**Status code: 200**

Queried.

```
{  
  "name" : "CPU",  
  "success" : true,  
  "reason" : "",  
  "risk" : "low"  
}
```

## Status Codes

| Status Code | Description |
|-------------|-------------|
| 200         | Queried.    |

## Error Codes

See [Error Codes](#).

## 5.10 Managing an Instance

### 5.10.1 Modifying SSL of an Instance

#### Function

This API is used to modify the SSL configuration of an instance.

#### URI

POST /v2/{project\_id}/{engine}/instances/{instance\_id}/plain-ssl-switch

Table 5-182 Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                                                                                    |
|------------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| engine     | Yes       | String | <b>Definition</b><br>Engine.<br><b>Constraints</b><br>N/A<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>rocketmq</b>: RocketMQ message engine.</li><li>• <b>reliability</b>: RocketMQ message engine alias.</li></ul> <b>Default Value</b><br>N/A |
| project_id | Yes       | String | <b>Definition</b><br>Project ID. For details about how to obtain it, see <a href="#">Obtaining a Project ID</a> .<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A                                                           |

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

## Request Parameters

**Table 5-183** Request body parameters

| Parameter | Mandatory | Type   | Description    |
|-----------|-----------|--------|----------------|
| tls_mode  | No        | String | Protocol mode. |

## Response Parameters

**Status code: 200**

**Table 5-184** Response body parameters

| Parameter | Type   | Description    |
|-----------|--------|----------------|
| job_id    | String | Task ID.       |
| tls_mode  | String | Protocol mode. |

## Example Requests

```
'POST https://{endpoint}/v2/{project_id}/{engine}/instances/{instance_id}/plain-ssl-switch'
{
  "tls_mode" : "ssl"
}
```

## Example Responses

**Status code: 200**

success

```
{
  "job_id" : "8abfa7b3971f12a20197207ea77161af",
  "tls_mode" : "ssl"
}
```

## Status Codes

| Status Code | Description |
|-------------|-------------|
| 200         | success     |

## Error Codes

See [Error Codes](#).

# 5.11 Background Task Management

## 5.11.1 Querying a Specific Record from Background Tasks

### Function

This API is used to query a specific record from background tasks.

### URI

GET /v2/{project\_id}/instances/{instance\_id}/tasks/{task\_id}

**Table 5-185** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                          |
|------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | <b>Definition</b><br>Project ID. For details about how to obtain it, see <a href="#">Obtaining a Project ID</a> .<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A |

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

## Request Parameters

None

## Response Parameters

Status code: 200

**Table 5-186** Response body parameters

| Parameter  | Type                          | Description                                                    |
|------------|-------------------------------|----------------------------------------------------------------|
| task_count | String                        | <b>Definition:</b><br>Number of tasks.<br><b>Range:</b><br>N/A |
| tasks      | Array of <b>tasks</b> objects | <b>Definition:</b><br>Task list.                               |

**Table 5-187** tasks

| Parameter | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id        | String | <b>Definition:</b><br>Task ID.<br><b>Range:</b><br>N/A                                                                                                                                                                                                                                                                                                                                                                                                        |
| name      | String | <b>Definition:</b><br>Task name.<br><b>Range:</b><br>N/A                                                                                                                                                                                                                                                                                                                                                                                                      |
| user_name | String | <b>Definition:</b><br>Username.<br><b>Range:</b><br>N/A                                                                                                                                                                                                                                                                                                                                                                                                       |
| user_id   | String | <b>Definition:</b><br>User ID.<br><b>Range:</b><br>N/A                                                                                                                                                                                                                                                                                                                                                                                                        |
| params    | String | <b>Definition:</b><br>Task parameters.<br><b>Range:</b><br>N/A                                                                                                                                                                                                                                                                                                                                                                                                |
| status    | String | <b>Definition</b><br>Task status.<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>CREATED:</b> The background task is created.</li><li>• <b>SUCCESS:</b> The background task is successful.</li><li>• <b>FAILED:</b> The background task fails.</li><li>• <b>DELETED:</b> The background task is deleted.</li><li>• <b>EXECUTING:</b> The background task is being executed.</li><li>• <b>CANCELLED:</b> The scheduled task is canceled.</li></ul> |

| Parameter  | Type   | Description                                               |
|------------|--------|-----------------------------------------------------------|
| created_at | String | <b>Definition:</b><br>Start time.<br><b>Range:</b><br>N/A |
| updated_at | String | <b>Definition:</b><br>End time.<br><b>Range:</b><br>N/A   |

## Example Requests

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

## Example Responses

**Status code: 200**

Successful

```
{
  "task_count" : "1",
  "tasks" : [ {
    "id" : "ff80808272dcc90f0172df1e490f41b0",
    "name" : "bindInstancePublicIp",
    "user_name" : "dms_test",
    "user_id" : "xxxxxxxx93ff484a828144c6xxxxxxxx",
    "params" : "{\"public_ip_id\":\"06a13350-4305-4338-9f0e-6b322bb1413d\", \"public_ip_address\": \"xx.xx.xx.xx\", \"enable_public_ip\": true}",
    "status" : "SUCCESS",
    "created_at" : "2020-06-23T03:00:03.471Z",
    "updated_at" : "2020-06-23T03:00:08.130Z"
  } ]
}
```

## Status Codes

| Status Code | Description |
|-------------|-------------|
| 200         | Successful  |

## Error Codes

See [Error Codes](#).

### 5.11.2 Deleting a Specific Record from Background Tasks

#### Function

This API is used to delete a specific record from background tasks.

#### URI

DELETE /v2/{project\_id}/instances/{instance\_id}/tasks/{task\_id}

Table 5-188 Path Parameters

| Parameter   | Mandatory | Type   | Description                                                                                                                                                                                                                              |
|-------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id  | Yes       | String | <b>Definition</b><br>Project ID. For details about how to obtain it, see <a href="#">Obtaining a Project ID</a> .<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A                                     |
| instance_id | Yes       | String | <b>Definition</b><br>Instance ID. You can call the API for querying all instances to obtain the instance ID. The instance ID is in the response body.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A |
| task_id     | Yes       | String | <b>Definition:</b><br>Task ID.<br><b>Constraints:</b><br>N/A<br><b>Range:</b><br>N/A<br><b>Default Value:</b><br>N/A                                                                                                                     |

## Request Parameters

None

## Response Parameters

**Status code: 204**

Successful

None

## Example Requests

Deleting a specific record from background tasks

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

## Example Responses

None

## Status Codes

| Status Code | Description |
|-------------|-------------|
| 204         | Successful  |

## Error Codes

See [Error Codes](#).

## 5.11.3 Querying a Background Task List of an Instance

### Function

This API is used to query a background task list of an instance.

### URI

GET /v2/{project\_id}/instances/{instance\_id}/tasks

**Table 5-189** Path Parameters

| Parameter   | Mandatory | Type   | Description                                                                                                                                                                                                                              |
|-------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id  | Yes       | String | <b>Definition</b><br>Project ID. For details about how to obtain it, see <a href="#">Obtaining a Project ID</a> .<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A                                     |
| instance_id | Yes       | String | <b>Definition</b><br>Instance ID. You can call the API for querying all instances to obtain the instance ID. The instance ID is in the response body.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A |

**Table 5-190** Query Parameters

| Parameter | Mandatory | Type    | Description                                                                                                                                         |
|-----------|-----------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| offset    | No        | Integer | <b>Definition</b><br>ID of the task where the query starts.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>$\geq 0$<br><b>Default Value</b><br>N/A |

| Parameter  | Mandatory | Type    | Description                                                                                                                                                                           |
|------------|-----------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| limit      | No        | Integer | <b>Definition:</b><br>Number of records to query.<br><b>Constraints:</b><br>N/A<br><b>Range:</b><br>N/A<br><b>Default Value:</b><br>N/A                                               |
| begin_time | No        | String  | <b>Definition:</b><br>Time of a task where the query starts. The format is YYYYMMDDHHmmss.<br><b>Constraints:</b><br>N/A<br><b>Range:</b><br>$\geq 0$<br><b>Default Value:</b><br>N/A |
| end_time   | No        | String  | <b>Definition:</b><br>Time of a task where the query ends. The format is YYYYMMDDHHmmss.<br><b>Constraints:</b><br>N/A<br><b>Range:</b><br>N/A<br><b>Default Value:</b><br>N/A        |

## Request Parameters

None

## Response Parameters

Status code: 200

Table 5-191 Response body parameters

| Parameter  | Type                                   | Description                                                    |
|------------|----------------------------------------|----------------------------------------------------------------|
| task_count | String                                 | <b>Definition:</b><br>Number of tasks.<br><b>Range:</b><br>N/A |
| tasks      | Array of <a href="#">tasks</a> objects | <b>Definition:</b><br>Task list.                               |

Table 5-192 tasks

| Parameter | Type   | Description                                                    |
|-----------|--------|----------------------------------------------------------------|
| id        | String | <b>Definition:</b><br>Task ID.<br><b>Range:</b><br>N/A         |
| name      | String | <b>Definition:</b><br>Task name.<br><b>Range:</b><br>N/A       |
| user_name | String | <b>Definition:</b><br>Username.<br><b>Range:</b><br>N/A        |
| user_id   | String | <b>Definition:</b><br>User ID.<br><b>Range:</b><br>N/A         |
| params    | String | <b>Definition:</b><br>Task parameters.<br><b>Range:</b><br>N/A |

| Parameter  | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| status     | String | <b>Definition</b><br>Task status.<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>CREATED</b>: The background task is created.</li><li>• <b>SUCCESS</b>: The background task is successful.</li><li>• <b>FAILED</b>: The background task fails.</li><li>• <b>DELETED</b>: The background task is deleted.</li><li>• <b>EXECUTING</b>: The background task is being executed.</li><li>• <b>CANCELLED</b>: The scheduled task is canceled.</li></ul> |
| created_at | String | <b>Definition:</b><br>Start time.<br><b>Range:</b><br>N/A                                                                                                                                                                                                                                                                                                                                                                                                     |
| updated_at | String | <b>Definition:</b><br>End time.<br><b>Range:</b><br>N/A                                                                                                                                                                                                                                                                                                                                                                                                       |

## 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**

Successful

```
{  
  "task_count" : "1",  
  "tasks" : [ {  
    "id" : "ff80808272dcc90f0172df1e490f41b0",  
    "name" : "bindInstancePublicIp",  
    "user_name" : "dms_test",  
    "user_id" : "xxxxxxxx93ff484a828144c6xxxxxxxx",  
    "params" : "{ \"public_ip_id\": \"06a13350-4305-4338-9f0e-6b322bb1413d\", \"public_ip_address  
\": \"xx.xx.xx.xx\", \"enable_public_ip\": true }",  
    "status" : "SUCCESS",  
    "created_at" : "2020-06-23T03:00:03.471Z",  
    "updated_at" : "2020-06-23T03:00:08.130Z"  
  } ]  
}
```

Status Codes

| Status Code | Description |
|-------------|-------------|
| 200         | Successful  |

Error Codes

See [Error Codes](#).

5.11.4 Querying Progress of an Instance Change Record

Function

Querying Progress of a Specified Instance Change Record in Background Task Management

URI

GET /v2/{project\_id}/instances/{instance\_id}/tasks/{task\_id}/progress

Table 5-193 Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                   |
|------------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | <b>Definition</b><br>Project ID. For details, see <a href="#">Obtaining a Project ID</a> .<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A |

| Parameter   | Mandatory | Type   | Description                                                                                                                                                                                                                              |
|-------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| instance_id | Yes       | String | <b>Definition</b><br>Instance ID. You can call the API for querying all instances to obtain the instance ID. The instance ID is in the response body.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A |
| task_id     | Yes       | String | <b>Definition</b><br>Task ID.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A                                                                                                                         |

Request Parameters

None

Response Parameters

Status code: 200

Table 5-194 Response body parameters

| Parameter           | Type    | Description                                                                      |
|---------------------|---------|----------------------------------------------------------------------------------|
| progress_percentage | Integer | <b>Definition</b><br>Background task processing progress.<br><b>Range</b><br>N/A |
| remain_time         | Integer | <b>Definition</b><br>Remaining time.<br><b>Range</b><br>N/A                      |

| Parameter | Type                                        | Description                     |
|-----------|---------------------------------------------|---------------------------------|
| step_list | Array of <a href="#">StepDetail</a> objects | <b>Definition</b><br>Step list. |

Table 5-195 StepDetail

| Parameter  | Type   | Description                                                                                                                                                            |
|------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| name       | String | <b>Definition</b><br>Task name.<br><b>Range</b><br>N/A                                                                                                                 |
| status     | String | <b>Definition</b><br>Task status.<br><b>Range</b> <ul style="list-style-type: none"><li>• COMPLETED</li><li>• IN_PROGRESS</li><li>• FAILED</li><li>• WAITING</li></ul> |
| start_time | String | <b>Definition</b><br>Start time.<br><b>Range</b><br>N/A                                                                                                                |
| end_time   | String | <b>Definition</b><br>End time.<br><b>Range</b><br>N/A                                                                                                                  |

Example Requests

GET https://{endpoint}/v2/{project\_id}/instances/{instance\_id}/tasks/{task\_id}/progress

Example Responses

**Status code: 200**  
Scheduled task modified.

```
{
  "progress_percentage" : 40,
  "remain_time" : 1124,
  "step_list" : [ {
    "name" : "pre_check",
```

```
{
  "statue" : "COMPLETED",
  "start_time" : 1765307538503,
  "end_time" : 1765307543133
}, {
  "name" : "rolling_scaling",
  "statue" : "IN_PROGRESS",
  "start_time" : 1765307543286,
  "end_time" : null
}, {
  "name" : "resume_operation",
  "statue" : "WAITING",
  "start_time" : null,
  "end_time" : null
}
}]
}
```

## Status Codes

| Status Code | Description              |
|-------------|--------------------------|
| 200         | Scheduled task modified. |

## Error Codes

See [Error Codes](#).

## 5.12 Other APIs

### 5.12.1 Querying 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 5-196** Response body parameters

| Parameter       | Type                                                        | Description                                            |
|-----------------|-------------------------------------------------------------|--------------------------------------------------------|
| region_id       | String                                                      | <b>Definition</b><br>Region ID.<br><b>Range</b><br>N/A |
| available_zones | Array of <a href="#">ListAvailableZonesElements</a> objects | <b>Definition</b><br>Array of AZs.                     |

**Table 5-197** ListAvailableZonesElements

| Parameter | Type    | Description                                                                                                                                                        |
|-----------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| soldOut   | Boolean | <b>Definition</b><br>Whether resources are sold out.<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>true</b>: Yes</li><li>• <b>false</b>: No</li></ul> |
| id        | String  | <b>Definition</b><br>AZ ID.<br><b>Range</b><br>N/A                                                                                                                 |
| code      | String  | <b>Definition</b><br>AZ code.<br><b>Range</b><br>N/A                                                                                                               |
| name      | String  | <b>Definition</b><br>AZ name.<br><b>Range</b><br>N/A                                                                                                               |
| port      | String  | <b>Definition</b><br>AZ port.<br><b>Range</b><br>N/A                                                                                                               |

| Parameter             | Type    | Description                                                                                                                                                                                         |
|-----------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| resource_availability | String  | <b>Definition</b><br>Whether the AZ has available resources.<br><b>Range</b><br>N/A                                                                                                                 |
| default_az            | Boolean | <b>Definition</b><br>Whether the AZ is the default one.<br><b>Range</b> <ul style="list-style-type: none"> <li>• <b>true</b>: Yes</li> <li>• <b>false</b>: No</li> </ul>                            |
| remain_time           | Long    | <b>Definition</b><br>Remaining time.<br><b>Range</b><br>N/A                                                                                                                                         |
| ipv6_enable           | Boolean | <b>Definition</b><br>Whether IPv6 is supported.<br><b>Range</b> <ul style="list-style-type: none"> <li>• <b>true</b>: Yes</li> <li>• <b>false</b>: No</li> </ul>                                    |
| mode                  | String  | <b>Definition</b><br>AZ mode.<br><b>Range</b> <ul style="list-style-type: none"> <li>• <b>dedicated</b>: edge AZ</li> <li>• <b>shared</b>: local AZ</li> <li>• <b>center</b>: central AZ</li> </ul> |
| scope                 | String  | <b>Definition</b><br>AZ group.<br><b>Range</b><br>N/A                                                                                                                                               |

## Example Requests

Querying AZ information

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

## Example Responses

**Status code: 200**

AZ information queried successfully.

```
{
  "region_id": "xxx",
  "available_zones": [ {
    "soldOut": false,
    "id": "8c90c2a4e2594c0782faa6b205afeca7",
    "code": "xxx",
    "name": "AZ 1",
    "port": "8002",
    "resource_availability": "true",
    "default_az": false,
    "remain_time": 9223372036854776000,
    "ipv6_enable": false
  }, {
    "soldOut": false,
    "id": "d539378ec1314c85b76fefa3f7071458",
    "code": "xxx",
    "name": "AZ 2",
    "port": "8003",
    "resource_availability": "true",
    "default_az": false,
    "remain_time": 9223372036854776000,
    "ipv6_enable": false
  }, {
    "soldOut": false,
    "id": "9f1c5806706d4c1fb0eb72f0a9b18c77",
    "code": "xxx",
    "name": "AZ 3",
    "port": "443",
    "resource_availability": "true",
    "default_az": true,
    "remain_time": 9223372036854776000,
    "ipv6_enable": false
  } ]
}
```

## Status Codes

| Status Code | Description                          |
|-------------|--------------------------------------|
| 200         | AZ information queried successfully. |

## Error Codes

See [Error Codes](#).

## 5.12.2 Querying Flavor List

### Function

This API is used to query the flavor list of an engine.

### URI

GET /v2/{engine}/products

Table 5-198 Path Parameters

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                                                                                                      |
|-----------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| engine    | Yes       | String | <b>Definition</b><br>Message engine type.<br><b>Constraints</b><br>N/A<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>rocketmq</b>: RocketMQ message engine.</li><li>• <b>reliability</b>: RocketMQ message engine alias.</li></ul> <b>Default Value</b><br>rocketmq |

Table 5-199 Query Parameters

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                  |
|-----------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| type      | No        | String | <b>Definition</b><br>Product type.<br><b>Constraints</b><br>N/A<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>advanced</b>: Service type.</li></ul> <b>Default Value</b><br>N/A |

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| product_id | No        | String | <p><b>Definition</b><br/>RocketMQ instance flavors.</p> <p><b>Constraints</b><br/>N/A</p> <p><b>Range</b></p> <ul style="list-style-type: none"> <li>• <b>c6.4u8g.cluster.small:</b> Max. 2,000 topics and 2,000 consumer groups per broker</li> <li>• <b>c6.4u8g.cluster:</b> Max. 4,000 topics and 4,000 consumer groups per broker</li> <li>• <b>c6.8u16g.cluster:</b> Max. 8,000 topics and 8,000 consumer groups per broker</li> <li>• <b>c6.12u24g.cluster:</b> Max. 12,000 topics and 12,000 consumer groups per broker</li> <li>• <b>c6.16u32g.cluster:</b> Max. 16,000 topics and 16,000 consumer groups per broker</li> <li>• <b>rocketmq.b1.large.1:</b> RocketMQ 5.x basic edition single-node flavor, instance TPS 500</li> <li>• <b>rocketmq.b2.large.4:</b> RocketMQ 5.x basic edition cluster flavor, instance TPS 2,000</li> <li>• <b>rocketmq.b2.large.8:</b> RocketMQ 5.x basic edition cluster flavor, instance TPS 4,000</li> <li>• <b>rocketmq.b2.large.12:</b> RocketMQ 5.x basic edition cluster flavor, instance TPS 6,000</li> <li>• <b>rocketmq.p1.large.1:</b> RocketMQ 5.x professional edition single-node flavor, instance TPS 500</li> <li>• <b>rocketmq.p2.large.8:</b> RocketMQ 5.x professional</li> </ul> |

| Parameter | Mandatory | Type | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------|-----------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           |           |      | <p>edition cluster flavor,<br/>instance TPS 4,000</p> <ul style="list-style-type: none"><li>● <b>rocketmq.p2.large.12:</b><br/>RocketMQ 5.x professional<br/>edition cluster flavor,<br/>instance TPS 6,000</li><li>● <b>rocketmq.p2.large.20:</b><br/>RocketMQ 5.x professional<br/>edition cluster flavor,<br/>instance TPS 10,000</li><li>● <b>rocketmq.p2.large.40:</b><br/>RocketMQ 5.x professional<br/>edition cluster flavor,<br/>instance TPS 20,000</li><li>● <b>rocketmq.p2.large.100:</b><br/>RocketMQ 5.x professional<br/>edition cluster flavor,<br/>instance TPS 50,000</li><li>● <b>rocketmq.p2.large.150:</b><br/>RocketMQ 5.x professional<br/>edition cluster flavor,<br/>instance TPS 75,000</li><li>● <b>rocketmq.p2.large.200:</b><br/>RocketMQ 5.x professional<br/>edition cluster flavor,<br/>instance TPS 100,000</li><li>● <b>rocketmq.p2.large.300:</b><br/>RocketMQ 5.x professional<br/>edition cluster flavor,<br/>instance TPS 150,000</li></ul> <p><b>Default Value</b><br/>N/A</p> |

Request Parameters

None

Response Parameters

Status code: 200

**Table 5-200** Response body parameters

| Parameter       | Type                                  | Description                                                                                                                                                                                                   |
|-----------------|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| total           | Number                                | <b>Definition</b><br>Total number.<br><b>Range</b><br>$\geq 0$                                                                                                                                                |
| next_offset     | Integer                               | <b>Definition</b><br>Offset of the next page.<br><b>Range</b><br>$\geq 0$                                                                                                                                     |
| previous_offset | Integer                               | <b>Definition</b><br>Offset of the previous page.<br><b>Range</b><br>$\geq 0$                                                                                                                                 |
| engine          | String                                | <b>Definition</b><br>Engine type.<br><b>Range</b> <ul style="list-style-type: none"> <li>• <b>rocketmq</b>: RocketMQ message engine.</li> <li>• <b>reliability</b>: RocketMQ message engine alias.</li> </ul> |
| versions        | Array of strings                      | <b>Definition</b><br>Supported versions.                                                                                                                                                                      |
| products        | Array of <b>ProductEntity</b> objects | <b>Definition</b><br>Instance details.                                                                                                                                                                        |

Table 5-201 ProductEntity

| Parameter | Type   | Description                                                                                                                                                                                                                                                                                                                                                                    |
|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| type      | String | <b>Definition</b><br>Product type.<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>single</b>: 4.8.0 single-node.</li><li>• <b>cluster</b>: 4.8.0 cluster</li><li>• <b>single.basic</b>: 5.x single-node basic edition.</li><li>• <b>cluster.basic</b>: 5.x cluster basic edition</li><li>• <b>cluster.professional</b>: 5.x cluster professional edition</li></ul> |

| Parameter  | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| product_id | String | <p><b>Definition</b></p> <p>RocketMQ instance flavors.</p> <p><b>Range</b></p> <ul style="list-style-type: none"> <li>• <b>c6.4u8g.cluster.small</b>: Max. 2,000 topics and 2,000 consumer groups per broker</li> <li>• <b>c6.4u8g.cluster</b>: Max. 4,000 topics and 4,000 consumer groups per broker</li> <li>• <b>c6.8u16g.cluster</b>: Max. 8,000 topics and 8,000 consumer groups per broker</li> <li>• <b>c6.12u24g.cluster</b>: Max. 12,000 topics and 12,000 consumer groups per broker</li> <li>• <b>c6.16u32g.cluster</b>: Max. 16,000 topics and 16,000 consumer groups per broker</li> <li>• <b>rocketmq.b1.large.1</b>: RocketMQ 5.x basic edition single-node flavor, instance TPS 500</li> <li>• <b>rocketmq.b2.large.4</b>: RocketMQ 5.x basic edition cluster flavor, instance TPS 2,000</li> <li>• <b>rocketmq.b2.large.8</b>: RocketMQ 5.x basic edition cluster flavor, instance TPS 4,000</li> <li>• <b>rocketmq.b2.large.12</b>: RocketMQ 5.x basic edition cluster flavor, instance TPS 6,000</li> <li>• <b>rocketmq.p1.large.1</b>: RocketMQ 5.x professional edition single-node flavor, instance TPS 500</li> <li>• <b>rocketmq.p2.large.8</b>: RocketMQ 5.x professional edition cluster flavor, instance TPS 4,000</li> <li>• <b>rocketmq.p2.large.12</b>: RocketMQ 5.x professional edition cluster flavor, instance TPS 6,000</li> <li>• <b>rocketmq.p2.large.20</b>: RocketMQ 5.x professional edition cluster flavor, instance TPS 10,000</li> <li>• <b>rocketmq.p2.large.40</b>: RocketMQ 5.x professional edition cluster flavor, instance TPS 20,000</li> </ul> |

| Parameter     | Type                             | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               |                                  | <ul style="list-style-type: none"> <li><b>rocketmq.p2.large.100:</b> RocketMQ 5.x professional edition cluster flavor, instance TPS 50,000</li> <li><b>rocketmq.p2.large.150:</b> RocketMQ 5.x professional edition cluster flavor, instance TPS 75,000</li> <li><b>rocketmq.p2.large.200:</b> RocketMQ 5.x professional edition cluster flavor, instance TPS 100,000</li> <li><b>rocketmq.p2.large.300:</b> RocketMQ 5.x professional edition cluster flavor, instance TPS 150,000</li> </ul> |
| ecs_flavor_id | String                           | <b>Definition</b><br>ID of an ECS flavor. For details, see the flavor list in the ECS specifications.<br><b>Range</b><br>N/A                                                                                                                                                                                                                                                                                                                                                                   |
| billing_code  | String                           | <b>Definition</b><br>CBC flavor code.<br><b>Range</b><br>Billing mode. <ul style="list-style-type: none"> <li><b>dms.rocketmq.basic.single.tps:</b> single-node RocketMQ 5.x basic edition.</li> <li><b>dms.rocketmq.basic.cluster.tps:</b> cluster RocketMQ 5.x basic edition.</li> <li><b>dms.rocketmq.pro.single.tps:</b> single-node RocketMQ 5.x professional edition.</li> <li><b>dms.rocketmq.pro.cluster.tps:</b> cluster RocketMQ 5.x professional edition.</li> </ul>                |
| arch_types    | Array of strings                 | <b>Definition</b><br>Supported architectures.                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| charging_mode | Array of strings                 | <b>Definition</b><br>Billing mode.                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| ios           | Array of <b>IOEntity</b> objects | <b>Definition</b><br>Supported I/O types.<br><b>Range</b><br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                               |

| Parameter             | Type                     | Description                                                                                                                                                                |
|-----------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| support_features      | Array of strings         | <b>Definition</b><br>Supported feature list.<br><b>Range</b><br>N/A                                                                                                        |
| properties            | <b>properties</b> object | <b>Definition</b><br>Product features.<br><b>Range</b><br>N/A                                                                                                              |
| qingtian_incompatible | Boolean                  | <b>Definition</b><br>Whether the instance is a QingTian one.<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>true</b>: Yes</li><li>• <b>false</b>: No</li></ul> |

**Table 5-202** IOSEntity

| Parameter         | Type             | Description                                                                                                                                                                                                                        |
|-------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| available_zones   | Array of strings | <b>Definition</b><br>AZ.<br><b>Range</b><br>N/A                                                                                                                                                                                    |
| unavailable_zones | Array of strings | <b>Definition</b><br>Unavailability zones.<br><b>Range</b><br>N/A                                                                                                                                                                  |
| io_spec           | String           | <b>Definition</b><br>Storage flavor code.<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>dms.physical.storage.high.v2</b>: high I/O disk</li><li>• <b>dms.physical.storage.ultra.v2</b>: ultra-high I/O disk</li></ul> |
| type              | String           | <b>Definition</b><br>Service type.<br><b>Range</b><br>evs                                                                                                                                                                          |

**Table 5-203** properties

| Parameter            | Type   | Description                                                                                                |
|----------------------|--------|------------------------------------------------------------------------------------------------------------|
| max_topic            | String | <b>Definition</b><br>Maximum number of topics.<br><b>Range</b><br>N/A                                      |
| broker_num           | String | <b>Definition</b><br>Broker quantity.<br><b>Range</b><br>N/A                                               |
| core                 | String | <b>Definition</b><br>Number of billing cores of an entire instance.<br><b>Range</b><br>N/A                 |
| max_consumer         | String | <b>Definition</b><br>Maximum number of consumers in an instance.<br><b>Range</b><br>N/A                    |
| rcu                  | String | <b>Definition</b><br>Traffic unit, $rcu * max\_tpc\_per\_rcu =$ Maximum flavor TPS.<br><b>Range</b><br>N/A |
| max_storage          | String | <b>Definition</b><br>Maximum storage space, in GB.<br><b>Range</b><br>N/A                                  |
| max_storage_per_node | String | <b>Definition</b><br>Maximum storage space of each node, in GB.<br><b>Range</b><br>N/A                     |
| product_alias        | String | <b>Definition</b><br>Alias of <b>product_id</b> .<br><b>Range</b><br>N/A                                   |

| Parameter               | Type   | Description                                                                                                                       |
|-------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------|
| max_tps_per_rcu         | String | <b>Definition</b><br>Maximum TPS of each RCU.<br><b>Range</b><br>N/A                                                              |
| engine_versions         | String | <b>Definition</b><br>Message engine version.<br><b>Range</b> <ul style="list-style-type: none"> <li>4.8.0</li> <li>5.x</li> </ul> |
| min_storage             | String | <b>Definition</b><br>Minimum storage space, in GB.<br><b>Range</b><br>N/A                                                         |
| min_storage_per_node    | String | <b>Definition</b><br>Minimum storage per node. Unit: GB.<br><b>Range</b><br>N/A                                                   |
| max_broker              | String | <b>Definition</b><br>Maximum number of brokers.<br><b>Range</b><br>N/A                                                            |
| max_topic_per_broker    | String | <b>Definition</b><br>Maximum number of topics that can be created on each broker.<br><b>Range</b><br>N/A                          |
| max_consumer_per_broker | String | <b>Definition</b><br>Maximum number of consumers on each broker.<br><b>Range</b><br>N/A                                           |
| min_broker              | String | <b>Definition</b><br>Minimum number of brokers.<br><b>Range</b><br>N/A                                                            |

## Example Requests

```
GET https://{endpoint}/v2/reliability/products?product_id=rocketmq.b1.large.1
```

## Example Responses

**Status code: 200**

Successful

```
{
  "total" : 1,
  "next_offset" : -1,
  "previous_offset" : -1,
  "engine" : "rocketmq",
  "versions" : [ "5.x" ],
  "products" : [ {
    "type" : "single.basic",
    "product_id" : "rocketmq.b1.large.1",
    "ecs_flavor_id" : "c6.large.4",
    "billing_code" : "dms.rocketmq.basic.single.tps",
    "arch_types" : [ "X86" ],
    "charging_mode" : [ "monthly", "hourly" ],
    "ios" : [ {
      "io_spec" : "dms.physical.storage.high.v2",
      "available_zones" : [ "cn-southwest-xxa", "cn-southwest-xxb" ],
      "type" : "evs",
      "unavailable_zones" : [ "cn-southwest-xxc" ]
    }, {
      "io_spec" : "dms.physical.storage.ultra.v2",
      "available_zones" : [ "cn-southwest-xxa", "cn-southwest-xxb" ],
      "type" : "evs",
      "unavailable_zones" : [ "cn-southwest-xxc" ]
    } ],
    "support_features" : [ ],
    "properties" : {
      "max_topic" : 50,
      "broker_num" : 1,
      "core" : 1,
      "max_consumer" : 500,
      "rcu" : 1,
      "max_storage" : 30000,
      "max_storage_per_node" : 90000,
      "min_storage" : 100,
      "product_alias" : "rocketmq.b1.large.1",
      "max_tps_per_rcu" : 500,
      "engine_versions" : "5.x",
      "min_storage_per_node" : 300
    },
    "qingtian_incompatible" : false
  } ]
}
```

## Status Codes

| Status Code | Description |
|-------------|-------------|
| 200         | Successful  |

## Error Codes

See [Error Codes](#).

### 5.12.3 Querying Instance Monitoring Dimensions

#### Function

This API is used to query instance monitoring dimensions.

#### URI

GET /v2/{project\_id}/instances/{instance\_id}/ces-hierarchy

Table 5-204 Path Parameters

| Parameter   | Mandatory | Type   | Description                                                                                                                                                                                                                              |
|-------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id  | Yes       | String | <b>Definition</b><br>Project ID. For details about how to obtain it, see <a href="#">Obtaining a Project ID</a> .<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A                                     |
| instance_id | Yes       | String | <b>Definition</b><br>Instance ID. You can call the API for querying all instances to obtain the instance ID. The instance ID is in the response body.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>N/A |

#### Request Parameters

None

#### Response Parameters

Status code: 200

**Table 5-205** Response body parameters

| Parameter    | Type                                 | Description                                      |
|--------------|--------------------------------------|--------------------------------------------------|
| dimensions   | Array of <b>dimensions</b> objects   | <b>Definition</b><br>Monitoring dimensions.      |
| instance_ids | Array of <b>instance_ids</b> objects | <b>Definition</b><br>Instance information.       |
| nodes        | Array of <b>nodes</b> objects        | <b>Definition</b><br>Node information.           |
| topics       | Array of <b>topics</b> objects       | <b>Definition</b><br>Queue information.          |
| dlq          | Array of <b>dlq</b> objects          | <b>Definition</b><br>Dead letter queue.          |
| groups       | Array of <b>groups</b> objects       | <b>Definition</b><br>Consumer group information. |

**Table 5-206** dimensions

| Parameter  | Type                             | Description                                                            |
|------------|----------------------------------|------------------------------------------------------------------------|
| name       | String                           | <b>Definition</b><br>Monitoring dimension name.<br><b>Range</b><br>N/A |
| metrics    | Array of strings                 | <b>Definition</b><br>Metric name.                                      |
| key_name   | Array of strings                 | <b>Definition</b><br>Key used for monitoring query.                    |
| dim_router | Array of strings                 | <b>Definition</b><br>Monitoring dimension route.                       |
| children   | Array of <b>children</b> objects | <b>Definition</b><br>List of secondary dimensions.                     |

**Table 5-207** children

| Parameter  | Type             | Description                                                                  |
|------------|------------------|------------------------------------------------------------------------------|
| name       | String           | <b>Definition</b><br>Secondary dimension name.<br><b>Range</b><br>N/A        |
| metrics    | Array of strings | <b>Definition</b><br>List of monitoring metric names.<br><b>Range</b><br>N/A |
| key_name   | Array of strings | <b>Definition</b><br>Key used for monitoring query.                          |
| dim_router | Array of strings | <b>Definition</b><br>Monitoring dimension route.                             |

**Table 5-208** instance\_ids

| Parameter | Type   | Description                                              |
|-----------|--------|----------------------------------------------------------|
| name      | String | <b>Definition</b><br>Instance ID.<br><b>Range</b><br>N/A |

**Table 5-209** nodes

| Parameter | Type   | Description                                            |
|-----------|--------|--------------------------------------------------------|
| name      | String | <b>Definition</b><br>Node name.<br><b>Range</b><br>N/A |

**Table 5-210** topics

| Parameter | Type   | Description                                             |
|-----------|--------|---------------------------------------------------------|
| name      | String | <b>Definition</b><br>Topic name.<br><b>Range</b><br>N/A |

**Table 5-211** dlq

| Parameter | Type   | Description                                                         |
|-----------|--------|---------------------------------------------------------------------|
| name      | String | <b>Definition</b><br>Dead letter queue name.<br><b>Range</b><br>N/A |

**Table 5-212** groups

| Parameter | Type                           | Description                                                      |
|-----------|--------------------------------|------------------------------------------------------------------|
| name      | String                         | <b>Definition</b><br>Consumer group name.<br><b>Range</b><br>N/A |
| topics    | Array of <b>topics</b> objects | <b>Definition</b><br>Topic subscription information.             |

**Table 5-213** topics

| Parameter | Type   | Description                                             |
|-----------|--------|---------------------------------------------------------|
| name      | String | <b>Definition</b><br>Topic name.<br><b>Range</b><br>N/A |

## Example Requests

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

## Example Responses

Status code: 200

Queried.

```
{
  "dimensions": [ {
    "name": "reliablemq_instance_id",
    "metrics": [ "instance_produce_msg", "instance_consume_msg" ],
    "key_name": [ "instance_ids" ],
    "dim_router": [ "reliablemq_instance_id" ]
  }, {
    "name": "reliablemq_broker",
    "metrics": [ "broker_produce_msg", "broker_consume_msg", "broker_produce_rate",
"broker_consume_rate", "broker_total_bytes_in_rate", "broker_total_bytes_out_rate",
"broker_cpu_core_load", "broker_disk_usage", "broker_memory_usage" ],
    "key_name": [ "nodes" ],
    "dim_router": [ "reliablemq_instance_id", "reliablemq_broker" ]
  }, {
    "name": "reliablemq_topics",
    "metrics": [ "topic_produce_msg", "topic_consume_msg", "topic_produce_rate", "topic_consume_rate" ],
    "key_name": [ "topics" ],
    "dim_router": [ "reliablemq_instance_id", "reliablemq_topics" ]
  }, {
    "name": "reliablemq_groups",
    "metrics": [ "group_consume_msg", "group_accumulation" ],
    "key_name": [ "groups" ],
    "dim_router": [ "reliablemq_instance_id", "reliablemq_groups" ],
    "children": [ {
      "name": "reliablemq_groups_topics",
      "metrics": [ "group_topic_consume_msg", "group_topic_consume_rate", "group_topic_accumulation" ],
      "key_name": [ "groups", "topics" ],
      "dim_router": [ "reliablemq_instance_id", "reliablemq_groups", "reliablemq_groups_topics" ]
    } ]
  }, {
    "name": "reliablemq_dlq_topics",
    "metrics": [ "dlq_accumulation" ],
    "key_name": [ "dlq" ],
    "dim_router": [ "reliablemq_instance_id", "reliablemq_dlq_topics" ]
  } ],
  "instance_ids": [ {
    "name": "af82f7a9-5636-4898-85e4-200fe0fab361"
  } ],
  "nodes": [ ],
  "topics": [ {
    "name": "dingshi"
  }, {
    "name": "lala"
  }, {
    "name": "shunxu"
  } ],
  "dlq": [ {
    "name": "DLQ_group-1"
  }, {
    "name": "DLQ_group-1000"
  }, {
    "name": "DLQ_group-2"
  }, {
    "name": "DLQ_group-3"
  }, {
    "name": "DLQ_group-4"
  }, {
    "name": "DLQ_group-5"
  }, {
    "name": "DLQ_group-6"
  }, {
    "name": "DLQ_group-7"
  }, {

```

```
"name" : "DLQ_group-8"
}, {
  "name" : "DLQ_group-9"
}, {
  "name" : "DLQ_group-dingshi"
}, {
  "name" : "DLQ_group-shunxu"
}, {
  "name" : "DLQ_group101010"
}],
"groups" : [ {
  "name" : "group-shunxu",
  "topics" : [ {
    "name" : "shunxu"
  } ]
}, {
  "name" : "group-7",
  "topics" : [ {
    "name" : "shunxu"
  } ]
}, {
  "name" : "group-dingshi",
  "topics" : [ {
    "name" : "dingshi"
  } ]
}, {
  "name" : "group-6",
  "topics" : [ {
    "name" : "shunxu"
  } ]
}, {
  "name" : "group-9",
  "topics" : [ {
    "name" : "shunxu"
  } ]
}, {
  "name" : "group-8",
  "topics" : [ {
    "name" : "shunxu"
  } ]
}, {
  "name" : "group-3",
  "topics" : [ {
    "name" : "shunxu"
  } ]
}, {
  "name" : "group-2",
  "topics" : [ {
    "name" : "shunxu"
  } ]
}, {
  "name" : "group-5",
  "topics" : [ {
    "name" : "dingshi"
  } ], {
    "name" : "shunxu"
  } ]
}, {
  "name" : "group-4",
  "topics" : [ {
    "name" : "shunxu"
  } ]
}, {
  "name" : "group101010",
  "topics" : [ {
    "name" : "shunxu"
  } ]
}, {
  "name" : "group-1000",
```

```
"topics" : [ {  
  "name" : "shunxu"  
} ]  
, {  
  "name" : "group-1",  
  "topics" : [ {  
    "name" : "shunxu"  
  } ]  
} ]  
}
```

Status Codes

| Status Code | Description |
|-------------|-------------|
| 200         | Queried.    |

Error Codes

See [Error Codes](#).

5.12.4 Obtaining the Feature Switch List

Function

This API is used to obtain the feature switch list.

URI

GET /v2/config/features

Request Parameters

None

Response Parameters

Status code: 200

Table 5-214 Response body parameters

| Parameter   | Type                                                | Description                                                           |
|-------------|-----------------------------------------------------|-----------------------------------------------------------------------|
| features    | Array of <a href="#">ListConfigFeatures</a> objects | <b>Definition</b><br>Feature list.                                    |
| totalRecord | Integer                                             | <b>Definition</b><br>Total number of features.<br><b>Range</b><br>N/A |

Table 5-215 ListConfigFeatures

| Parameter   | Type    | Description                                                                                                                         |
|-------------|---------|-------------------------------------------------------------------------------------------------------------------------------------|
| featureId   | String  | <b>Definition</b><br>Feature ID.<br><b>Range</b><br>N/A                                                                             |
| status      | Integer | <b>Definition</b><br>Feature status.<br><b>Range</b> <ul style="list-style-type: none"><li>0: disabled</li><li>1: enabled</li></ul> |
| description | String  | <b>Definition</b><br>Feature description.<br><b>Range</b><br>N/A                                                                    |

Example Requests

```
GET https://{endpoint}/v2/config/features
```

Example Responses

Status code: 200

Queried.

```
{
  "features": [ {
    "featureId": "rocketmq_cross_vpc",
    "status": 1,
    "description": "rocketmq cross vpc switch"
  }, {
    "featureId": "pdp5_auth_enable",
    "status": 1,
    "description": "pdp5 check permission enable"
  } ]
}
```

Status Codes

| Status Code | Description |
|-------------|-------------|
| 200         | Queried.    |

Error Codes

See [Error Codes](#).

## 5.12.5 Querying vCPUs of a RocketMQ Flavor

### Function

This API is used to query the number of cores of a RocketMQ flavor.

### URI

GET /v2/rocketmq/products/cores

Table 5-216 Query Parameters

| Parameter   | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| instance_id | No        | String | <p><b>Definition</b></p> <p>Instance ID. You can call the API for querying all instances to obtain the instance ID. The instance ID is in the response body. The instance ID is optional.</p> <p><b>total_extend_storage_space</b> is returned only when the instance ID is entered in the response body.</p> <p><b>Constraints</b></p> <p>N/A</p> <p><b>Range</b></p> <p>N/A</p> <p><b>Default Value</b></p> <p>N/A</p> |

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| product_id | Yes       | String | <p><b>Definition</b><br/>Product ID.</p> <p><b>Constraints</b><br/>N/A</p> <p><b>Range</b></p> <ul style="list-style-type: none"> <li>• <b>c6.4u8g.cluster.small:</b> Max. 2,000 topics and 2,000 consumer groups per broker</li> <li>• <b>c6.4u8g.cluster:</b> Max. 4,000 topics and 4,000 consumer groups per broker</li> <li>• <b>c6.8u16g.cluster:</b> Max. 8,000 topics and 8,000 consumer groups per broker</li> <li>• <b>c6.12u24g.cluster:</b> Max. 12,000 topics and 12,000 consumer groups per broker</li> <li>• <b>c6.16u32g.cluster:</b> Max. 16,000 topics and 16,000 consumer groups per broker</li> <li>• <b>rocketmq.b1.large.1:</b> RocketMQ 5.x basic edition single-node flavor, instance TPS 500</li> <li>• <b>rocketmq.b2.large.4:</b> RocketMQ 5.x basic edition cluster flavor, instance TPS 2,000</li> <li>• <b>rocketmq.b2.large.8:</b> RocketMQ 5.x basic edition cluster flavor, instance TPS 4,000</li> <li>• <b>rocketmq.b2.large.12:</b> RocketMQ 5.x basic edition cluster flavor, instance TPS 6,000</li> <li>• <b>rocketmq.p1.large.1:</b> RocketMQ 5.x professional edition single-node flavor, instance TPS 500</li> <li>• <b>rocketmq.p2.large.8:</b> RocketMQ 5.x professional</li> </ul> |

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |           |        | edition cluster flavor,<br>instance TPS 4,000 <ul style="list-style-type: none"><li>● <b>rocketmq.p2.large.12:</b><br/>RocketMQ 5.x professional<br/>edition cluster flavor,<br/>instance TPS 6,000</li><li>● <b>rocketmq.p2.large.20:</b><br/>RocketMQ 5.x professional<br/>edition cluster flavor,<br/>instance TPS 10,000</li><li>● <b>rocketmq.p2.large.40:</b><br/>RocketMQ 5.x professional<br/>edition cluster flavor,<br/>instance TPS 20,000</li><li>● <b>rocketmq.p2.large.100:</b><br/>RocketMQ 5.x professional<br/>edition cluster flavor,<br/>instance TPS 50,000</li><li>● <b>rocketmq.p2.large.150:</b><br/>RocketMQ 5.x professional<br/>edition cluster flavor,<br/>instance TPS 75,000</li><li>● <b>rocketmq.p2.large.200:</b><br/>RocketMQ 5.x professional<br/>edition cluster flavor,<br/>instance TPS 100,000</li><li>● <b>rocketmq.p2.large.300:</b><br/>RocketMQ 5.x professional<br/>edition cluster flavor,<br/>instance TPS 150,000</li></ul> <b>Default Value</b><br>N/A |
| broker_num | Yes       | String | <b>Definition</b><br>Number of brokers.<br><b>Constraints</b><br>N/A<br><b>Range</b><br>N/A<br><b>Default Value</b><br>1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

Request Parameters

None

## Response Parameters

Status code: 200

Table 5-217 Response body parameters

| Parameter                  | Type    | Description                                                                                                                                                                                                                                                                                                                              |
|----------------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| core_num                   | Integer | Number of vCPUs.                                                                                                                                                                                                                                                                                                                         |
| total_extend_storage_space | Integer | <b>Definition</b><br>Estimated storage space. If the entered <b>broker_num</b> is less than or equal to the actual value of the current instance, the storage space of the current instance is displayed. Otherwise, the estimated storage space of the instance with the entered <b>broker_num</b> is displayed.<br><b>Range</b><br>N/A |

## Example Requests

```
GET https://{endpoint}/v2/rocketmq/products/cores?
instance_id={instance_id}&product_id={product_id}&broker_num={broker_num}
```

## Example Responses

Status code: 200

Successful

```
{
  "core_num" : 100,
  "total_extend_storage_space" : 300
}
```

## 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 DMS for RocketMQ instances. If your HUAWEI ID does not require individual IAM users, you can skip this chapter.

By default, new IAM users do not have any permissions assigned. You need to add a user to one or more groups, and assign permissions policies to these groups. The user then inherits permissions from the groups it is a member of. This process is called authorization. After authorization, the user can perform specified operations on cloud resources 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.

## 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 have the required permissions specifically assigned. 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 creates a RocketMQ instance using an API, the user must have been granted permissions that allow the **dms:instance:create** action.

## Supported Actions

DMS for RocketMQ 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:

- **Permissions:** Statements in a policy that allow or deny certain operations.
- **APIs:** REST APIs that can be called by a user who has been granted specific permissions.

- Actions: Added to a custom policy to control permissions for specific operations.
- 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. For details about the differences between IAM and enterprise projects, see [What Are the Differences Between IAM and Enterprise Management?](#)

DMS for RocketMQ supports the actions listed in [Table 6-1](#) in custom policies.

**Table 6-1** DMS for RocketMQ actions

| Permission                                     | API                                                  | Action                                                                                        | IAM Project | Enterprise Project |
|------------------------------------------------|------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------|--------------------|
| Creating an Instance                           | POST /v2/{engine}/{project_id}/instances             | dms:instance:create                                                                           | √           | √                  |
| Querying the Instance List                     | 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 Deleting Instances                       | POST /v2/{project_id}/instances/action               | dms:instance:delete                                                                           | √           | √                  |
| Querying the broker list                       | GET /v2/{project_id}/instances/{instance_id}/brokers | dms:broker:list                                                                               | √           | √                  |
| Creating a topic or deleting topics in batches | POST /v2/{project_id}/instances/{instance_id}/topics | <ul style="list-style-type: none"><li>• dms:topic:create</li><li>• dms:topic:delete</li></ul> | √           | √                  |
| Querying the topic list                        | GET /v2/{project_id}/instances/{instance_id}/topics  | dms:topic:list                                                                                | √           | √                  |

| Permission                                 | API                                                                               | Action                    | IAM Project | Enterprise Project |
|--------------------------------------------|-----------------------------------------------------------------------------------|---------------------------|-------------|--------------------|
| Deleting a topic                           | DELETE /v2/{project_id}/instances/{instance_id}/topics/{topic}                    | dms:topic:delete          | √           | √                  |
| Modifying a Topic                          | PUT /v2/{project_id}/instances/{instance_id}/topics/{topic}                       | dms:topic:modify          | √           | √                  |
| Querying the Topic Consumer Group List     | GET /v2/{project_id}/instances/{instance_id}/topics/{topic}/groups                | dms:topic:get             | √           | √                  |
| Querying the Number of Messages in a Topic | GET /v2/{project_id}/instances/{instance_id}/topics/{topic}/status                | dms:topic:get             | √           | √                  |
| Querying Messages                          | GET /v2/{engine}/{project_id}/instances/{instance_id}/messages                    | dms:message:get           | √           | √                  |
| Sending a Message                          | POST /v2/{engine}/{project_id}/instances/{instance_id}/messages                   | dms:message:send          | √           | √                  |
| Querying message traces                    | GET /v2/{engine}/{project_id}/instances/{instance_id}/trace                       | dms:message:getTrace      | √           | √                  |
| Exporting the message list                 | POST /v2/{project_id}/instances/{instance_id}/messages/export                     | dms:message:export        | √           | √                  |
| Resending Dead Letter Messages             | POST /v2/{engine}/{project_id}/instances/{instance_id}/messages/deadletter-resend | dms:instance:resendDlqMsg | √           | √                  |

| Permission                                                  | API                                                                                           | Action                                                                                       | IAM Project | Enterprise Project |
|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-------------|--------------------|
| Creating a User                                             | POST /v2/{project_id}/instances/{instance_id}/users                                           | dms:user:create                                                                              | √           | √                  |
| Querying the User List                                      | GET /v2/{project_id}/instances/{instance_id}/users                                            | dms:user:list                                                                                | √           | √                  |
| Querying User Details                                       | GET /v2/{project_id}/instances/{instance_id}/users/{user_name}                                | dms:user:get                                                                                 | √           | √                  |
| Modifying user parameters                                   | PUT /v2/{project_id}/instances/{instance_id}/users/{user_name}                                | dms:user:modify                                                                              | √           | √                  |
| Deleting a user                                             | DELETE /v2/{project_id}/instances/{instance_id}/users/{user_name}                             | dms:user:delete                                                                              | √           | √                  |
| Creating a consumer group or batch deleting consumer groups | POST /v2/{project_id}/instances/{instance_id}/groups                                          | <ul style="list-style-type: none"> <li>dms:group:create</li> <li>dms:group:delete</li> </ul> | √           | √                  |
| Querying the consumer group list or details                 | GET /v2/{project_id}/instances/{instance_id}/groups/{group}/topics                            | <ul style="list-style-type: none"> <li>dms:group:list</li> <li>dms:group:get</li> </ul>      | √           | √                  |
| Deleting a Consumer Group                                   | DELETE /v2/{project_id}/instances/{instance_id}/groups/{group}                                | dms:group:delete                                                                             | √           | √                  |
| Resetting the consumer offset                               | POST /v2/{engine}/{project_id}/instances/{instance_id}/groups/{group_id}/reset-message-offset | dms:group:resetConsumeOffset                                                                 | √           | √                  |

| Permission                                                                | API                                                                | Action                                                                                                                                   | IAM Project | Enterprise Project |
|---------------------------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------|
| Modifying a consumer group                                                | PUT /v2/{project_id}/instances/{instance_id}/groups/{group}        | dms:group:modify                                                                                                                         | √           | √                  |
| Creating a Metadata Migration Task                                        | POST /v2/{project_id}/instances/{instance_id}/metadata             | dms:instance:createMetadataMigrationTask                                                                                                 | √           | √                  |
| Querying All Migration Tasks or a Specified Migration Task of an Instance | GET /v2/{project_id}/instances/{instance_id}/metadata              | <ul style="list-style-type: none"> <li>dms:instance:listMetadataMigrationTasks</li> <li>dms:instance:getMetadataMigrationTask</li> </ul> | √           | √                  |
| Deleting a Metadata Migration Task                                        | DELETE /v2/{project_id}/instances/{instance_id}/metadata           | dms:instance:deleteMetadataMigrationTask                                                                                                 | √           | √                  |
| Creating an Instance Diagnosis Task                                       | POST /v2/{engine}/{project_id}/instances/{instance_id}/diagnosis   | instance:createDiagnosisTask                                                                                                             | √           | √                  |
| Querying the instance diagnosis report list                               | GET /v2/{engine}/{project_id}/instances/{instance_id}/diagnosis    | dms:instance:listDiagnosisReport                                                                                                         | √           | √                  |
| Deleting Instance Diagnosis Records in Batches                            | DELETE /v2/{engine}/{project_id}/instances/{instance_id}/diagnosis | dms:instance:deleteDiagnosisReport                                                                                                       | √           | √                  |
| Querying an Instance Diagnosis Report                                     | GET /v2/{engine}/{project_id}/diagnosis/{report_id}                | dms:instance:getDiagnosisReport                                                                                                          | √           | √                  |

| Permission                                       | API                                                                     | Action                            | IAM Project | Enterprise Project |
|--------------------------------------------------|-------------------------------------------------------------------------|-----------------------------------|-------------|--------------------|
| Modifying Instance Specifications                | POST /v2/{engine}/{project_id}/instances/{instance_id}/extend           | dms:instance:scale                | √           | √                  |
| Modifying SSL of an Instance                     | POST /v2/{project_id}/{engine}/instances/{instance_id}/plain-ssl-switch | dms:instance:modifySslSwitch      | √           | √                  |
| Restarting an Instance                           | POST /v2/{project_id}/{engine}/instances/{instance_id}/restart          | dms:instance:modifyStatus         | √           | √                  |
| Querying a Specific Record from Background Tasks | GET /v2/{project_id}/instances/{instance_id}/tasks/{task_id}            | dms:instance:getBackgroundTask    | √           | √                  |
| Deleting a Specific Record from Background Tasks | DELETE /v2/{project_id}/instances/{instance_id}/tasks/{task_id}         | dms:instance:deleteBackgroundTask | √           | √                  |

# 7 Appendix

## 7.1 Status Code

Table 7-1 lists status codes.

Table 7-1 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.<br><br>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.<br>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.<br>The client should modify the request instead of re-initiating it.                                    |
| 404         | NotFound          | The requested resource cannot be found.<br>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.<br>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.<br>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 exists.                                                                                  |
| 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.<br>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 <b>timeout</b> parameter.                                                                                                                                                                                   |
| 505         | HTTP Version not supported | The server does not support the HTTP protocol version used in the request.                                                                                                                                                                                                                                                          |

## 7.2 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.0040001<br>2 | Invalid password format.                                                                                           | The password does not meet the complexity requirements.                                                            | Check whether the password meets the requirements.<br>A password: <ul style="list-style-type: none"> <li>• Can contain 8 to 32 characters.</li> <li>• Must contain at least three of the following character types: letters, digits, and special characters `~!@#\$%^&amp;*()-_+= []{}:~",./?`</li> <li>• Cannot be a weak password.</li> </ul> |
| 400         | DMS.0040001<br>3 | vpc_id in the request is empty.                                                                                    | Request parameter vpc_id is empty.                                                                                 | Check the vpc_id parameter.                                                                                                                                                                                                                                                                                                                     |
| 400         | DMS.0040001<br>4 | security_group_id in the request is empty.                                                                         | Request parameter security_group_id is empty.                                                                      | Check the security_group_id parameter.                                                                                                                                                                                                                                                                                                          |
| 400         | DMS.0040001<br>5 | 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.0040001<br>6 | 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.0040010<br>1 | 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.0040010<br>2 | 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.0040010<br>3 | 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.0040010<br>5 | 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.0040010<br>6 | 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.00400142 | Timestamp is invalid.                                                                    | Timestamp is invalid.                                                   | Enter a correct timestamp.                        |

| Status Code | Error Codes  | Error Message                                                                              | Description                                                                                        | Solution                                                                       |
|-------------|--------------|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| 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.                                                |
| 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.                                                     |

| Status Code | Error Codes  | Error Message                                                          | Description                                                            | Solution                                 |
|-------------|--------------|------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------|
| 400         | DMS.00500978 | Consumer group name exists.                                            | Consumer group name exists.                                            | 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.                          |
| 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.                   |

| Status Code | Error Codes      | Error Message                                                | Description                                                        | Solution                                 |
|-------------|------------------|--------------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------|
| 400         | DMS.1024001<br>1 | The name length must be 1 to 64 characters.                  | The name can contain 1 to 64 characters.                           | Check the name length.                   |
| 400         | DMS.1024001<br>2 | The name length must be 1 to 32 characters.                  | The name can contain 1 to 32 characters.                           | Check the name length.                   |
| 400         | DMS.1024001<br>3 | The description length must not exceed 160 characters.       | The description can contain a maximum of 160 characters.           | Check the description length.            |
| 400         | DMS.1024001<br>4 | 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.1024001<br>5 | The queue ID format is invalid.                              | Invalid queue ID.                                                  | Check the queue ID.                      |
| 400         | DMS.1024001<br>6 | The group ID format is invalid.                              | Invalid group ID.                                                  | Check the group ID.                      |
| 400         | DMS.1024001<br>7 | The queue already exists.                                    | The queue already exists.                                          | Check whether the queue exists.          |
| 400         | DMS.1024001<br>8 | The consumer group already exists.                           | The consumer group already exists.                                 | Check whether the consumer group exists. |
| 400         | DMS.1024001<br>9 | 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.1024002<br>0 | The quota is insufficient.                                   | Insufficient quota.                                                | Check the quota.                         |

| Status Code | Error Codes  | Error Message                                                         | Description                                                           | Solution                                                                      |
|-------------|--------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|-------------------------------------------------------------------------------|
| 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.                                             |
| 400         | DMS.10240039 | The tag value contains invalid characters.                            | The tag value contains invalid characters.                            | Check the tag value of the queue.                                             |

| Status Code | Error Codes  | Error Message                                                                       | Description                                                                      | Solution                                                   |
|-------------|--------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|------------------------------------------------------------|
| 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.           |
| 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. |

| Status Code | Error Codes  | Error Message                                                                      | Description                                                                        | Solution                                                       |
|-------------|--------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------------------------------|
| 400         | DMS.10540010 | The request format is incorrect                                                    | The request format is incorrect.<br>{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.<br>{Error description}                            | Check the request format.                                      |
| 400         | DMS.10542204 | Failed to consume messages due to {desc}.                                          | Failed to consume messages.<br>{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.<br>{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 exists.                                                     | Requested topic already exists.                                                     | Please check the requested topic.                              |
| 400         | DMS.40050015  | Consumer group exists.                                                              | Consumer group exists.                                                              | 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.                                            | Please 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.1024031<br>1 | 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.1024031<br>2 | 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.0040400<br>1 | The requested URL does not exist.                                                     | The requested URL does not exist.                                                               | Check the URL.                                             |
| 404         | DMS.0040402<br>2 | This instance does not exist.                                                         | The instance does not exist.                                                                    | Check whether the instance exists.                         |
| 404         | DMS.1024040<br>1 | 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.1024040<br>5 | 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.1024040<br>6 | 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.1024040<br>7 | 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.1024042<br>6 | 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.005000017 | Internal service error.             | Internal service error.                      | Contact technical support.           |
| 500         | DMS.005000024 | Internal service error.             | Internal service error.                      | Contact technical support.           |
| 500         | DMS.005000025 | Internal service error.             | Internal service error.                      | Contact technical support.           |
| 500         | DMS.005000041 | Internal service error.             | Internal service error.                      | Contact technical support.           |
| 500         | DMS.005000052 | Internal service error.             | Failed to submit the instance upgrade job.   | Contact technical support.           |
| 500         | DMS.005000053 | Internal service error.             | The specified instance node is not found.    | Contact technical support.           |
| 500         | DMS.005000054 | Internal service error.             | Failed to generate the password.             | Contact technical support.           |
| 500         | DMS.005000070 | Internal service error.             | Failed to configure the instance.            | Contact technical support.           |
| 500         | DMS.005000071 | 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                                                                                                               |

## 7.3 Instance Statuses

**Table 7-2** Instance status description

| Status         | Description                                                                                                                                     |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| CREATING       | The instance is being 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.                                                                                                                |
| STARTING       | The status between <b>Frozen</b> and <b>Running</b> .                                                                                           |
| EXTENDING      | The instance specifications are being changed.                                                                                                  |
| EXTENDEDFAILED | The instance specifications failed to be changed.                                                                                               |
| FROZEN         | The instance has been frozen due to insufficient account balance. You can unfreeze the instance by topping up your account in <b>My Order</b> . |
| FREEZING       | The status between <b>Running</b> and <b>Frozen</b> .                                                                                           |
| UPGRADING      | The instance is being upgraded.                                                                                                                 |
| ROLLINGBACK    | The instance is being rolled back.                                                                                                              |
| DELETING       | The instance is being deleted.                                                                                                                  |

## 7.4 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 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

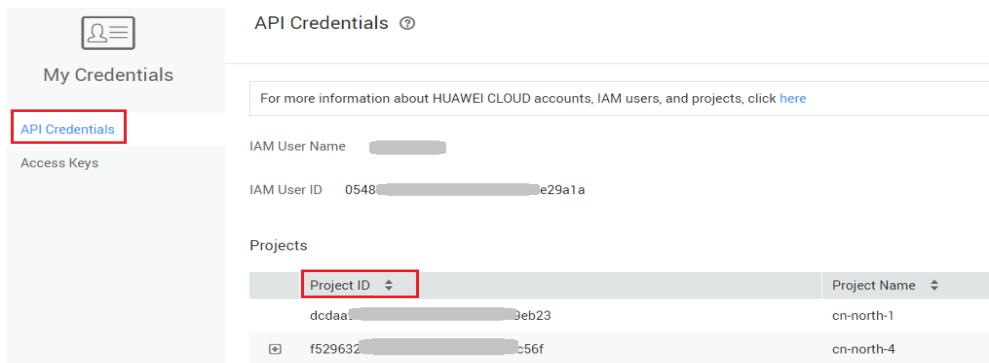
A project ID is required for some URLs when an API is called. You can obtain a project ID on the console.

The following procedure describes how to obtain a project ID:

- Step 1** Log in to the [RocketMQ instance console](#).
- Step 2** Hover the mouse pointer over the username in the upper right corner and choose **My Credentials** from the drop-down list.

On the **API Credentials** page, view the project ID in the project list.

**Figure 7-1** Viewing a project ID



----End

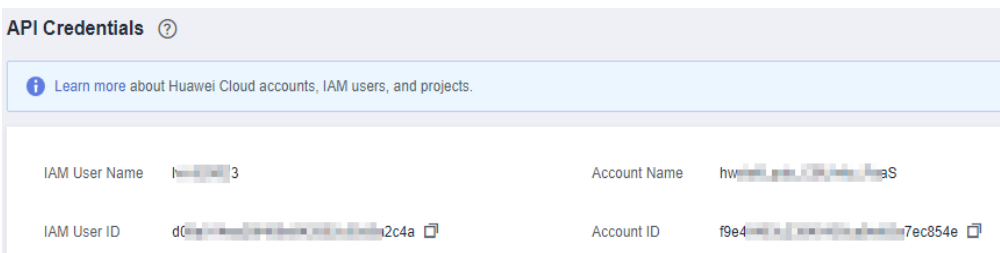
## 7.5 Obtaining the Account Name and Account ID

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 [RocketMQ instance console](#).
2. Hover the mouse pointer over the username in the upper right corner and choose **My Credentials** from the drop-down list.

View the account name and account ID.

**Figure 7-2** Viewing the account name and account ID



# A Change History

| Released On | Description                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2025-12-18  | <p>This issue incorporates the following changes:</p> <ul style="list-style-type: none"><li>Added the APIs for <a href="#">Sending a Message</a>, <a href="#">Modifying SSL of an Instance</a>, <a href="#">Querying Pre-check Information Before Expanding a RocketMQ Instance</a>, and <a href="#">Obtaining the Feature Switch List</a>.</li><li>Added the APIs for <a href="#">Background Task Management</a>.</li></ul> |
| 2025-03-28  | <p>This issue incorporates the following change:</p> <p>Added the APIs for <a href="#">consumer list query</a>, <a href="#">dead letter message resending</a>, <a href="#">consumption verification</a>, <a href="#">Metadata Migration</a>, <a href="#">Managing Parameters</a>, <a href="#">Tag Management</a>, and <a href="#">Specification Modification Management</a>.</p>                                             |
| 2022-08-30  | <p>This issue is the first official release.</p>                                                                                                                                                                                                                                                                                                                                                                             |