

Distributed Message Service for RocketMQ

API Reference

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1

Before You Start

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](#).

Constraints

- The number of instances that you can create is determined by your quota. For details, see [Service Quota](#).
- For more constraints, see API description.

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.

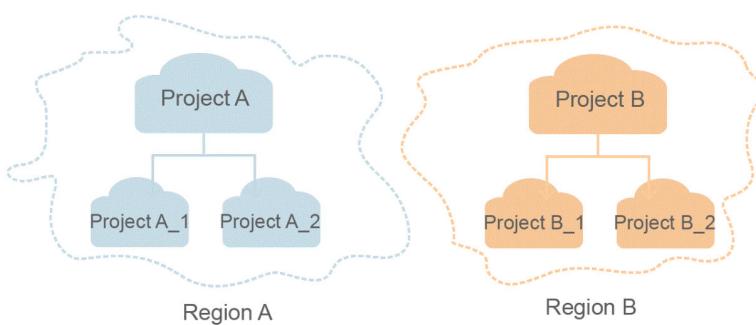
- **Region:** A region is a geographic area in which cloud resources are deployed. Availability zones (AZs) in the same region can communicate with each other over an intranet, while AZs in different regions are isolated from each other. Deploying cloud resources in different regions can better suit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

- An AZ contains one or more physical data centers. Each AZ has independent cooling, fire extinguishing, moisture-proof, and electricity facilities. Within an AZ, compute, network, storage, and other resources are logically divided into multiple clusters. AZs within a region are interconnected using high-speed optical fibers to support cross-AZ high-availability systems.

- **Project**

Projects group and isolate resources (including compute, storage, 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.

Figure 1-1 Project isolating model



- **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	<p>Includes</p> <ul style="list-style-type: none">• Querying the Instance List• Creating an Instance• Querying an Instance• Deleting an Instance• Modifying Instance Information• Batch Deleting Instances• Querying the Broker List• Enabling Domain Name Access to a RocketMQ Instance
Consumer Group Management	<p>Includes:</p> <ul style="list-style-type: none">• Querying the Consumer Group List• Creating a Consumer Group or Batch Deleting Consumer Groups• Batch Modifying Consumer Groups• Deleting a Consumer Group• Querying a Consumer Group• Modifying a Consumer Group• Querying the Consumer Group List or Details• Resetting the Consumer Offset• Querying the Consumer List

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

API	Description
Diagnosing an Instance	Includes: <ul style="list-style-type: none">• Creating an Instance Diagnosis Task• Querying an Instance Diagnosis Report List• Deleting Instance Diagnosis Records in Batches• Querying an Instance Diagnosis Report• Querying Stack Information
Specification Modification Management	Includes: <ul style="list-style-type: none">• Querying Product Information for Instance Specification Modification• Modifying Instance Specifications
Managing Instances	Includes: <ul style="list-style-type: none">• Querying an Instance Broker• Restarting an Instance• Modifying SSL of an Instance
Managing Background Tasks	Includes: <ul style="list-style-type: none">• Querying a Specific Record from Background Tasks• Deleting a Specific Record from Background Tasks• Querying a Background Task List of an Instance
Other APIs	Includes: <ul style="list-style-type: none">• Querying AZ Information• Querying Flavor List• Querying vCPUs of a RocketMQ Flavor

3 Calling APIs

3.1 Making an API Request

This section describes how to make a REST API request, and uses the IAM API for [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.

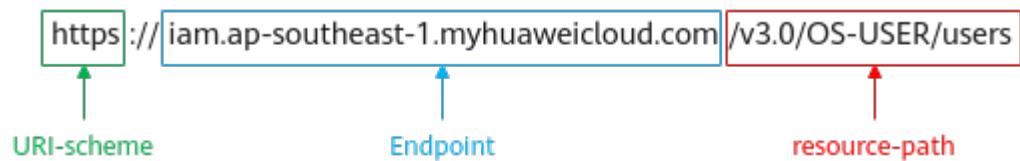
Table 3-1 Parameters in a URI

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 . For example, the endpoint of IAM in the CN-Hong Kong region is iam.ap-southeast-1.myhuaweicloud.com .
resource-path	Access path of an API for performing a specified operation. Obtain the path from the URI of an API. For example, the resource-path of the API used for creating an IAM user is /v3.0/OS-USER/users.
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, ?limit=10 indicates that a maximum of 10 data records will be displayed.

For example, to obtain an IAM token in the **CN-Hong Kong** region, obtain the endpoint of IAM (**iam.ap-southeast-1.myhuaweicloud.com**) for this region and the resource-path (**/v3.0/OS-USER/users**) in the URI of the API for [creating an IAM user](#). Then, construct the URI as follows:

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

Figure 3-1 Example URI



NOTE

To simplify the URI display 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:

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

Request Header

You can also add additional header fields to a request, such as the fields required by a specified URI or HTTP method. For example, to request 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 This parameter is mandatory for AK/SK authentication.	code.test.com or code.test.com:443
Content-Type	Message body type or format. The default value application/json is recommended. Other values of this field will be provided for specific APIs if any.	Yes	application/json
Content-Length	Length of the request body. The unit is byte.	No	3495
X-Project-Id	Project ID. Obtain the project ID by following the instructions in Obtaining a Project ID .	No This field is mandatory for requests that use AK/SK authentication in the Dedicated Cloud (DeC) scenario or multi-project scenario.	e9993fc787d94b6c886cb aa340f9c0f4

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

NOTE

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

For more information, see "AK/SK-based Authentication" in [Authentication](#).

The API used for [creating an IAM user](#) requires authentication using AK/SK. An example of such requests is as follows:

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

Request Body (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.ap-southeast-1.myhuaweicloud.com/v3.0/OS-USER/users
Content-Type: application/json
```

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

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

If all data required 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



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



The validity period of a token is 24 hours. When using a token for authentication, cache it to prevent frequently calling the IAM API used to obtain a user token.

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

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

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

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

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

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

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

3.3 Returned Values

Status Code

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

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

For the API used for [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 3-2](#) shows the response header for the API of [creating an IAM user](#).

Figure 3-2 Header of the response to the request for creating an IAM user

```
"X-Frame-Options": "SAMEORIGIN",
"X-IAM-ETag-id": "2562365939-d8f6f12921974cb097338ac11fceac8a",
"Transfer-Encoding": "chunked",
"Strict-Transport-Security": "max-age=31536000; includeSubdomains;",
"Server": "api-gateway",
"X-Request-Id": "af2953f2bcc67a42325a69a19e6c32a2",
"X-Content-Type-Options": "nosniff",
"Connection": "keep-alive",
"X-Download-Options": "noopen",
"X-XSS-Protection": "1; mode=block;",
"X-IAM-Trace-Id": "token_[REDACTED]_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": "ead6cxxxxxxxx9ba91820e72c",  
  "subnet_id": "3cb6axxxxxxxa7f671d6a8",  
  "security_group_id": "d39c8xxxxxxxxaa8510a498",  
  "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 an Instance](#).
- **vpc_id**: ID of the Virtual Private Cloud (VPC) where the RocketMQ instance resides. You can query the VPC ID on the [VPC console](#) or by calling the [API for querying VPCs](#).

- **subnet_id**: ID of the VPC subnet. You can obtain the value on the [VPC console](#) or by calling the [API for querying subnets](#).
- **security_group_id**: ID of the security group. You can obtain the value on the [VPC console](#) or by calling the [API for querying security groups](#).
- **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 an Instance](#).
- **storage_spec_code**: storage I/O specification. For details about the value range, see [Creating an Instance](#).
- **broker_num**: number of brokers.

5 APIs V2 (Recommended)

5.1 Lifecycle Management

5.1.1 Querying the Instance List

Function

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

Calling Method

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

URI

GET /v2/{project_id}/instances

Table 5-1 Path Parameters

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

Table 5-2 Query Parameters

Parameter	Mandatory	Type	Description
engine	Yes	String	<p>Parameter description: Message engine.</p> <p>Constraints: N/A</p> <p>Value range: N/A</p> <p>Default value: N/A</p>
name	No	String	<p>Parameter description: Instance name.</p> <p>Constraints: N/A</p> <p>Value range: N/A</p> <p>Default value: N/A</p>
instance_id	No	String	<p>Parameter description: Instance ID. To obtain it, log in to the RocketMQ console and find the instance ID on the RocketMQ instance details page.</p> <p>Constraints: N/A</p> <p>Value range: N/A</p> <p>Default value: N/A</p>
status	No	String	<p>Parameter description: Instance status. For details, see Instance Status.</p> <p>Constraints: N/A</p> <p>Value range: N/A</p> <p>Default value: N/A</p>

Parameter	Mandatory	Type	Description
include_failure	No	String	<p>Parameter description: Whether to return the number of instances that fail to be created.</p> <p>Constraints: N/A</p> <p>Value range:</p> <ul style="list-style-type: none"> • 'true': yes • 'false': no <p>Default value: N/A</p>
exact_match_name	No	String	<p>Parameter description: Whether to search for the instance that precisely matches a specified instance name.</p> <p>Constraints: N/A</p> <p>Value range:</p> <ul style="list-style-type: none"> • 'true': yes • 'false': no <p>Default value: 'false'</p>
enterprise_project_id	No	String	<p>Parameter description: Enterprise project ID.</p> <p>Constraints: N/A</p> <p>Value range: N/A</p> <p>Default value: N/A</p>

Parameter	Mandatory	Type	Description
limit	No	Integer	Parameter description: Maximum number of instances that can be returned in a query. Constraints: N/A Value range: 1–50 Default value: 10
offset	No	Integer	Parameter description: Offset where the query starts. Constraints: N/A Value range: ≥ 0 Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 5-3 Response body parameters

Parameter	Type	Description
instances	Array of InstanceDetail objects	Parameter description: Instance list. Value range: N/A
instance_num	Integer	Parameter description: Number of instances. Value range: N/A

Table 5-4 InstanceDetail

Parameter	Type	Description
name	String	Parameter description: Instance name. Value range: N/A
engine	String	Parameter description: Message engine. Value range: N/A
status	String	Parameter description: Status. Value range: N/A
description	String	Parameter description: Message description. Value range: N/A
type	String	Parameter description: Instance type. Value range: <ul style="list-style-type: none"> • single: single-node • cluster: cluster
specification	String	Parameter description: Instance specification. Value range: N/A
engine_version	String	Parameter description: Instance version. Value range: N/A
instance_id	String	Parameter description: Instance ID. Value range: N/A

Parameter	Type	Description
charging_mode	Integer	Parameter description: Billing mode. Value range: 1: pay-per-use; 0: yearly/monthly.
vpc_id	String	Parameter description: VPC ID. Value range: N/A
vpc_name	String	Parameter description: VPC name. Value range: N/A
created_at	String	Parameter description: Time when creation is complete. The time is in the format of timestamp, that is, the offset milliseconds from 1970-01-01 00:00:00 UTC to the specified time. Value range: N/A
product_id	String	Parameter description: Product ID. Value range: N/A
security_group_id	String	Parameter description: Security group ID. Value range: N/A
security_group_name	String	Parameter description: Security group name. Value range: N/A
subnet_id	String	Parameter description: Subnet ID. Value range: N/A

Parameter	Type	Description
subnet_cidr	String	<p>Parameter description: Subnet route. This field is displayed only for RocketMQ 5.x.</p> <p>Value range: N/A</p>
available_zones	Array of strings	<p>Parameter description: List of AZ IDs.</p> <p>Value range: N/A</p>
available_zone_names	Array of strings	<p>Parameter description: List of AZ names.</p>
user_id	String	<p>Parameter description: User ID.</p> <p>Value range: N/A</p>
user_name	String	<p>Parameter description: Username.</p> <p>Value range: N/A</p>
maintain_begin	String	<p>Parameter description: Time at which the maintenance window starts. The format is <i>HH:mm:ss</i>.</p> <p>Value range: N/A</p>
maintain_end	String	<p>Parameter description: Time at which the maintenance window ends. The format is <i>HH:mm:ss</i>.</p> <p>Value range: N/A</p>
enable_log_collection	Boolean	<p>Parameter description: Whether log collection is enabled.</p> <p>Value range:</p> <ul style="list-style-type: none"> • true: yes • false: no

Parameter	Type	Description
storage_space	Integer	<p>Parameter description: Storage space, in GB.</p> <p>Value range: N/A</p>
used_storage_space	Integer	<p>Parameter description: Used message storage space, in GB.</p> <p>Value range: N/A</p>
enable_publicip	Boolean	<p>Parameter description: Whether to enable public access.</p> <p>Value range:</p> <ul style="list-style-type: none"> • true: yes • false: no
publicip_id	String	<p>Parameter description: ID of the EIP bound to the instance. Use commas (,) to separate multiple EIP IDs.</p> <p>This parameter is mandatory if public access is enabled (that is, enable_publicip is set to true).</p> <p>Value range: N/A</p>
publicip_address	String	<p>Parameter description: Public IP address.</p> <p>Value range: N/A</p>
ssl_enable	Boolean	<p>Parameter description: Whether SSL is enabled.</p> <p>Value range:</p> <ul style="list-style-type: none"> • true: yes • false: no
cross_vpc_info	String	<p>Parameter description: Cross-VPC access information.</p> <p>Value range: N/A</p>

Parameter	Type	Description
storage_resource_id	String	Parameter description: Storage resource ID. Value range: N/A
storage_spec_code	String	Parameter description: Storage specification code. Value range: N/A
service_type	String	Parameter description: Service type. Value range: N/A
storage_type	String	Parameter description: Storage type. Value range: N/A
extend_times	Long	Parameter description: Extension time. Value range: N/A
ipv6_enable	Boolean	Parameter description: Whether IPv6 is enabled. Value range: <ul style="list-style-type: none"> • true: yes • false: no
support_features	String	Parameter description: Features supported by the instance. Value range: N/A
disk_encrypted	Boolean	Parameter description: Whether disk encryption is enabled. Value range: <ul style="list-style-type: none"> • true: yes • false: no

Parameter	Type	Description
ces_version	String	Parameter description: Cloud Eye version. Value range: N/A
node_num	Integer	Parameter description: Number of nodes. Value range: N/A
new_spec_billing_enable	Boolean	Parameter description: Whether billing based on new specifications is enabled. Value range: <ul style="list-style-type: none"> • true: yes • false: no
enable_acl	Boolean	Parameter description: Whether access control is enabled. Value range: <ul style="list-style-type: none"> • true: yes • false: no
broker_num	Integer	Parameter description: Number of brokers (displayed only for RocketMQ 4.8.0). Value range: N/A
dns_enable	Boolean	Parameter description: Whether to enable domain name access to an instance. Value range: <ul style="list-style-type: none"> • true: yes • false: no
namesrv_address	String	Parameter description: Metadata address. Value range: N/A

Parameter	Type	Description
namesrv_domain_name	String	Parameter description: Metadata domain name. Value range: N/A
broker_address	String	Parameter description: Service data address. Value range: N/A
public_namesrv_address	String	Parameter description: Public network metadata address. Value range: N/A
public_namesrv_domain_name	String	Parameter description: Public metadata domain name. Value range: N/A
public_broker_address	String	Parameter description: Public network service data address. Value range: N/A
grpc_address	String	Parameter description: gRPC connection address (displayed only for RocketMQ 5.x). Value range: N/A
grpc_domain_name	String	Parameter description: gRPC connection domain name (displayed only for RocketMQ 5.x). Value range: N/A
public_grpc_address	String	Parameter description: Public gRPC connection address (displayed only for RocketMQ 5.x). Value range: N/A

Parameter	Type	Description
public_grpc_domain_name	String	<p>Parameter description: Public gRPC domain name (displayed only for RocketMQ 5.x).</p> <p>Value range: N/A</p>
enterprise_project_id	String	<p>Parameter description: Enterprise project ID.</p> <p>Value range: N/A</p>
tags	Array of TagEntity objects	<p>Parameter description: Tag list.</p> <p>Value range: N/A</p>
total_storage_space	Integer	<p>Parameter description: Total storage space.</p> <p>Value range: N/A</p>
resource_spec_code	String	<p>Parameter description: Resource flavor.</p> <p>Value range: N/A</p>
produce_portion	Integer	<p>Parameter description: Production TPS proportion.</p> <p>Value range: N/A</p>
consume_portion	Integer	<p>Parameter description: Consumption TPS proportion.</p> <p>Value range: N/A</p>
dr_enable	Boolean	<p>Parameter description: Whether DR is enabled.</p> <p>Value range: N/A</p>

Parameter	Type	Description
config_ssl_need_restart_process	Boolean	<p>Parameter description: Whether a restart is required to configure SSL.</p> <p>Value range: N/A</p>
tls_mode	String	<p>Parameter description: Security protocol used by the instance.</p> <p>Value range: N/A</p>

Table 5-5 TagEntity

Parameter	Type	Description
key	String	<p>Definition: Tag key.</p> <p>Constraints:</p> <ul style="list-style-type: none"> • Cannot be left blank. • Must be unique for the same instance. • Can contain 1 to 128 characters. • Can contain letters, digits, spaces, and special characters _.:=-@ • Cannot start with sys • Cannot start or end with a space. <p>Range: N/A</p> <p>Default Value: N/A</p>

Parameter	Type	Description
value	String	<p>Definition: Tag value.</p> <p>Constraints:</p> <ul style="list-style-type: none">• Can contain 0 to 255 characters.• Can contain letters, digits, spaces, and special characters _.:=-@• Cannot start or end with a space. <p>Range: N/A</p> <p>Default Value: N/A</p>

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",  
            "available_zones": [ "9f1c5806706d4c1fb0eb72f0a9b18c77" ],  
            "available_zone_names": [ "AZ3" ],  
            "user_id": "0b01fb53600d4671fa8c00673c71260",  
            "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,  
            "tags": [ "tag1", "tag2" ]  
        }  
    ]  
}
```

```
    "cross_vpc_info" : "{\"192.168.1.21\":{\"advertiseds_ip\":\"192.168.1.21\",\"broker_port\":\"-\",\"port_id\":\"fa020857-d899-497c-a5f8-8dd90ed67ff7\",\"namesrv_port\":\"8301\"},\"192.168.1.246\":{\"advertiseds_ip\":\"192.168.1.246\",\"broker_port\":\"10100\",\"port_id\":\"c0f0586f-a4ee-41b5-a7f1-b4e554bbf12d\",\"namesrv_port\":\"-\"},\"192.168.1.77\":{\"advertiseds_ip\":\"192.168.1.77\",\"broker_port\":\"10101\",\"port_id\":\"8eb1d144-4315-402f-8498-37c9a10b630c\"},\"namesrv_port\":\"-\"},\"192.168.1.159\":{\"advertiseds_ip\":\"192.168.1.159\",\"broker_port\":\"-\",\"port_id\":\"d35b22af-a202-4329-bda4-26e1bdf2aa8e\"},\"namesrv_port\":\"8300\"},\"192.168.1.14\":{\"advertiseds_ip\":\"192.168.1.14\",\"broker_port\":\"10102\",\"port_id\":\"5fc50fd-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" :
"kafka.crossvc.domain.enable,feature.physerver.kafka.topic.accesspolicy,rabbitmq.plugin.management,rocketmq.acl,roma_app_enable,auto_topic_switch,feature.physerver.kafka.user.manager,enable.new.authinfo,route,kafka.config.dynamic.modify.enable,kafka.new.pod.port,feature.physerver.kafka.topic.modify,message_trace_enable,features.pod.token.access,kafka.ssl.cert.modify.enable,roma.user.manage.no.support,feature.physerver.kafka.pulbic.dynamic,features.log.collection,kafka.config.static.modify.enable",
    "disk_encrypted" : false,
    "ces_version" : "linux,v1,v2",
    "node_num" : 5,
    "new_spec_billing_enable" : true,
    "broker_num" : 1,
    "namesrv_address" : "****",
    "broker_address" : "****",
    "public_namesrv_address" : "****",
    "public_broker_address" : "****",
    "grpc_address" : "****",
    "public_grpc_address" : "****"
} ],
"instance_num" : 1
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

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

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

public class ListInstancesSolution {

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

        ICredential auth = new BasicCredentials()
```

```
.withProjectId(projectId)
.withAk(ak)
.withSk(sk);

RocketMQClient client = RocketMQClient.newBuilder()
    .withCredential(auth)
    .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))
    .build();
ListInstancesRequest request = new ListInstancesRequest();
try {
    ListInstancesResponse response = client.listInstances(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

    credentials = BasicCredentials(ak, sk, projectId)

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

    try:
        request = ListInstancesRequest()
        response = client.list_instances(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
```

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

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

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

    client := rocketmq.NewRocketMQClient(
        rocketmq.RocketMQClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

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

More

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

Status Codes

Status Code	Description
200	Instance list queried successfully.

Error Codes

See [Error Codes](#).

5.1.2 Creating an Instance

Function

This API is used to create an instance, and pay-per-use and yearly/monthly billing modes are supported.

Calling Method

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

URI

POST /v2/{engine}/{project_id}/instances

Table 5-6 Path Parameters

Parameter	Mandatory	Type	Description
engine	Yes	String	Message engine.
project_id	Yes	String	Project ID. For details, see Obtaining a Project ID .

Request Parameters

Table 5-7 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Instance name. An instance name can contain 4 to 64 characters. Only letters, digits, underscores (_), and hyphens (-) are allowed.
description	No	String	Description of an instance. The description supports up to 1024 characters. NOTE The backslash () and quotation mark ("") are special characters for JSON messages. When using these characters in a parameter value, add the escape character () before the characters, for example, \ and ".
engine	Yes	String	Message engine. Value: reliability .
engine_version	Yes	String	Version of the message engine. The value can be 4.8.0.
storage_space	Yes	Integer	Storage space.

Parameter	Mandatory	Type	Description
vpc_id	Yes	String	VPC ID. To obtain it, log in to the VPC console and view the VPC ID on the VPC details page.
subnet_id	Yes	String	Subnet information. To obtain it, log in to VPC console and click the target subnet on the Subnets page. You can view the network ID on the displayed page.
security_group_id	Yes	String	ID of the security group to which the instance belongs. To obtain it, log in to the VPC console and view the security group ID on the security group details page.
available_zones	Yes	Array of strings	ID of the AZ where instance brokers reside and which has available resources. Obtain the AZ ID by referring to Listing AZ Information . The parameter value cannot be empty or null. Check whether resources exist in the AZs. A RocketMQ instance can be deployed in 1 AZ or at least 3 AZs. When specifying AZs for brokers, use commas (,) to separate multiple AZs.

Parameter	Mandatory	Type	Description
product_id	Yes	String	<p>RocketMQ instance flavors.</p> <ul style="list-style-type: none"> • c6.4u8g.cluster.small: Max. 2,000 topics and 2,000 consumer groups per broker • c6.4u8g.cluster: Max. 4,000 topics and 4,000 consumer groups per broker • c6.8u16g.cluster: Max. 8,000 topics and 8,000 consumer groups per broker • c6.12u24g.cluster: Max. 12,000 topics and 12,000 consumer groups per broker • c6.16u32g.cluster: Max. 16,000 topics and 16,000 consumer groups per broker
ssl_enable	No	Boolean	<p>Whether to enable SSL encryption for access.</p> <ul style="list-style-type: none"> • true: enable • false: disable
storage_spec_code	Yes	String	<p>Storage I/O specification.</p> <ul style="list-style-type: none"> • dms.physical.storage.high.v2: high I/O disk • dms.physical.storage.ultra.v2: ultra-high I/O disk • dms.physical.storage.general: General Purpose SSD EVS. • dms.physical.storage.extreme: Extreme SSD EVS.
enterprise_project_id	No	String	Enterprise project ID. This parameter is mandatory for an enterprise project account.
enable_acl	No	Boolean	Whether to enable access control.
ipv6_enable	No	Boolean	<p>Indicates whether IPv6 is supported.</p> <ul style="list-style-type: none"> • true: Yes • false: No

Parameter	Mandatory	Type	Description
proxy_enable	No	Boolean	Whether to enable the proxy function. <ul style="list-style-type: none"> • true: Yes • false: No
enable_publicip	No	Boolean	Whether to enable public access. By default, public access is disabled. <ul style="list-style-type: none"> • true: enable • false: disable
publicip_id	No	String	ID of the EIP bound to the instance. Use commas (,) to separate multiple EIP IDs. This parameter is mandatory if public access is enabled (that is, enable_publicip is set to true).
broker_num	Yes	Integer	Number of brokers.
arch_type	No	String	Architecture type.
tls_mode	No	String	Security protocol used by an instance.
bss_param	No	BssParam object	Parameter related to the yearly/monthly billing mode. If this parameter is left blank, the billing mode is pay-per-use by default. If this parameter is not left blank, the billing mode is yearly/monthly.

Table 5-8 BssParam

Parameter	Mandatory	Type	Description
is_auto_renew	No	Boolean	<p>Whether auto renewal is enabled.</p> <p>Options:</p> <ul style="list-style-type: none"> • true: Auto renewal is enabled. • false: Auto renewal is not enabled. <p>By default, auto renewal is disabled.</p>
charging_mode	No	String	<p>Billing mode.</p> <p>This parameter specifies a payment mode.</p> <p>Options:</p> <ul style="list-style-type: none"> • prePaid: yearly/monthly billing. • postPaid: pay-per-use billing. <p>The default value is postPaid.</p>
is_auto_pay	No	Boolean	<p>Specifies whether the order is automatically or manually paid.</p> <p>Options:</p> <ul style="list-style-type: none"> • true: The order will be automatically paid. • false: The order must be manually paid. <p>The default payment mode is manual.</p>
period_type	No	String	<p>Subscription period type.</p> <p>Options:</p> <ul style="list-style-type: none"> • month • year: <p>**This parameter is valid and mandatory only when chargingMode is set to prePaid. **</p>

Parameter	Mandatory	Type	Description
period_num	No	Integer	<p>Subscribed periods. Options:</p> <ul style="list-style-type: none"> • If periodType is month, the value ranges from 1 to 9. • If periodType is year, the value ranges from 1 to 3. <p>**This parameter is valid and mandatory only when chargingMode is set to prePaid. **</p>

Response Parameters

Status code: 200

Table 5-9 Response body parameters

Parameter	Type	Description
instance_id	String	Instance ID.

Example Requests

Creating a pay-per-use RocketMQ instance with the 4 vCPUs | 8 GB x 1 specifications and 600 GB storage space

```
POST https://{endpoint}/v2/reliability/{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" : "0a0f1fcf-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-yb1-a05t-93dfc361b32d"  
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

Creating a pay-per-use RocketMQ instance with the 4 vCPUs | 8 GB x 1 specifications and 600 GB storage space

```
package com.huaweicloud.sdk.test;  
  
import com.huaweicloud.sdk.core.auth.ICredential;  
import com.huaweicloud.sdk.core.auth.BasicCredentials;  
import com.huaweicloud.sdk.core.exception.ConnectionException;  
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;  
import com.huaweicloud.sdk.core.exception.ServiceResponseException;  
import com.huaweicloud.sdk.rocketmq.v2.region.RocketMQRegion;  
import com.huaweicloud.sdk.rocketmq.v2.*;  
import com.huaweicloud.sdk.rocketmq.v2.model.*;  
  
import java.util.List;  
import java.util.ArrayList;  
  
public class CreateInstanceByEngineSolution {  
  
    public static void main(String[] args) {  
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great  
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or  
        // environment variables and decrypted during use to ensure security.  
        // In this example, AK and SK are stored in environment variables for authentication. Before running  
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
        String ak = System.getenv("CLOUD_SDK_AK");  
        String sk = System.getenv("CLOUD_SDK_SK");  
        String projectId = "{project_id}";  
  
        ICredential auth = new BasicCredentials()  
            .withProjectId(projectId)  
            .withAk(ak)  
            .withSk(sk);  
  
        RocketMQClient client = RocketMQClient.newBuilder()  
            .withCredential(auth)  
            .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))  
            .build();  
        CreateInstanceByEngineRequest request = new CreateInstanceByEngineRequest();  
        request.withEngine(CreateInstanceByEngineRequest.EngineEnum.fromValue("{engine}"));  
        CreateInstanceByEngineReq body = new CreateInstanceByEngineReq();  
        List<String> listbodyAvailableZones = new ArrayList<>();  
        listbodyAvailableZones.add("9f1c5806706d4c1fb0eb72f0a9b18c77");  
        body.withBrokerNum(1);  
        body.withPublicipId("");  
        body.withEnablePublicip(false);  
        body.withIpv6Enable(false);  
        body.withEnterpriseProjectId("0");  
  
        body.withStorageSpecCode(CreateInstanceByEngineReq.StorageSpecCodeEnum.fromValue("dms.physical.storage.ultra.v2"));  
        body.withSslEnable(false);  
        body.withProductId(CreateInstanceByEngineReq.ProductIdEnum.fromValue("c6.4u8g.cluster"));  
        body.withAvailableZones(listbodyAvailableZones);  
        body.withSecurityGroupId("23c5977f-ff33-4b95-a73e-08d8a0bc4e6c");
```

```
body.withSubnetId("0a0f1fcb-f019-458d-b9e5-301867394d50");
body.withVpcId("3db8490c-4d6d-4d8f-8d3f-047b0de4c5cf");
body.withStorageSpace(600);
body.withEngineVersion(CreateInstanceByEngineReq.EngineVersionEnum.fromValue("4.8.0"));
body.withEngine(CreateInstanceByEngineReq.EngineEnum.fromValue("reliability"));
body.withDescription("");
body.withName("reliability-1751840557");
request.withBody(body);
try {
    CreateInstanceByEngineResponse response = client.createInstanceByEngine(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

Creating a pay-per-use RocketMQ instance with the 4 vCPUs | 8 GB x 1 specifications and 600 GB storage space

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

    credentials = BasicCredentials(ak, sk, projectId)

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

    try:
        request = CreateInstanceByEngineRequest()
        request.engine = "{engine}"
        listAvailableZonesbody = [
            "9f1c5806706d4c1fb0eb72f0a9b18c77"
        ]
        request.body = CreateInstanceByEngineReq(
            broker_num=1,
            publicip_id="",
            enable_publicip=False,
            ipv6_enable=False,
            enterprise_project_id="0",
            storage_spec_code="dms.physical.storage.ultra.v2",
            ssl_enable=False,
        )
    
```

```
        product_id="c6.4u8g.cluster",
        available_zones=listAvailableZonesbody,
        security_group_id="23c5977f-ff33-4b95-a73e-08d8a0bc4e6c",
        subnet_id="0a0f1fcf-f019-458d-b9e5-301867394d50",
        vpc_id="3db8490c-4d6d-4d8f-8d3f-047b0de4c5cf",
        storage_space=600,
        engine_version="4.8.0",
        engine="reliability",
        description:"",
        name="reliability-1751840557"
    )
    response = client.create_instance_by_engine(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

Creating a pay-per-use RocketMQ instance with the 4 vCPUs | 8 GB x 1 specifications and 600 GB storage space

```
package main

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

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

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

    client := rocketmq.NewRocketMQClient(
        rocketmq.RocketMQClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.CreateInstanceByEngineRequest{}
    request.Engine = model.GetInstanceByEngineRequestEngineEnum().ENGINE
    var listAvailableZonesbody = []string{
        "9f1c5806706d4c1fb0eb72f0a9b18c77",
    }
    publicIdCreateInstanceByEngineReq:= ""
    enablePublicipCreateInstanceByEngineReq:= false
    ipv6EnableCreateInstanceByEngineReq:= false
    enterpriseProjectIdCreateInstanceByEngineReq:= "0"
    sslEnableCreateInstanceByEngineReq:= false
    descriptionCreateInstanceByEngineReq:= ""
    request.Body = &model.CreateInstanceByEngineReq{
        BrokerNum: int32(1),
```

```
PublicipId: &publicipIdCreateInstanceByEngineReq,
EnablePublicip: &enablePublicipCreateInstanceByEngineReq,
Ipv6Enable: &ipv6EnableCreateInstanceByEngineReq,
EnterpriseProjectId: &enterpriseProjectIdCreateInstanceByEngineReq,
StorageSpecCode:
model.GetCreateInstanceByEngineReqStorageSpecCodeEnum().DMS_PHYSICAL_STORAGE_ULTRA,
SslEnable: &sslEnableCreateInstanceByEngineReq,
ProductId: model.GetCreateInstanceByEngineReqProductIdEnum().C6_4U8G_CLUSTER,
AvailableZones: listAvailableZonesbody,
SecurityGroupId: "23c5977f-ff33-4b95-a73e-08d8a0bc4e6c",
SubnetId: "0a0f1fcb-f019-458d-b9e5-301867394d50",
VpcId: "3db8490c-4d6d-4d8f-8d3f-047b0de4c5cf",
StorageSpace: int32(600),
EngineVersion: model.GetCreateInstanceByEngineReqEngineVersionEnum().E_4_8_0,
Engine: model.GetCreateInstanceByEngineReqEngineEnum().RELIABILITY,
Description: &descriptionCreateInstanceByEngineReq,
Name: "reliability-1751840557",
}
response, err := client.CreateInstanceByEngine(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
}
```

More

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

Status Codes

Status Code	Description
200	Instance created 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.

Calling Method

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

URI

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

Table 5-10 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	<p>Parameter description: Project ID. For details, see Obtaining a Project ID.</p> <p>Constraints: N/A</p> <p>Value range: N/A</p> <p>Default value: N/A</p>
instance_id	Yes	String	<p>Parameter description: Instance ID. To obtain it, log in to the RocketMQ console and find the instance ID on the RocketMQ instance details page.</p> <p>Constraints: N/A</p> <p>Value range: N/A</p> <p>Default value: N/A</p>

Request Parameters

None

Response Parameters

Status code: 200

Table 5-11 Response body parameters

Parameter	Type	Description
name	String	<p>Parameter description: Instance name.</p> <p>Value range: N/A</p>

Parameter	Type	Description
engine	String	Parameter description: Message engine. Value range: N/A
status	String	Parameter description: Status. Value range: N/A
description	String	Parameter description: Message description. Value range: N/A
type	String	Parameter description: Instance type. Value range: <ul style="list-style-type: none"> • single: single-node • cluster: cluster
specification	String	Parameter description: Instance specification. Value range: N/A
engine_version	String	Parameter description: Instance version. Value range: N/A
instance_id	String	Parameter description: Instance ID. Value range: N/A
charging_mode	Integer	Parameter description: Billing mode. Value range: 1: pay-per-use; 0: yearly/monthly.

Parameter	Type	Description
vpc_id	String	Parameter description: VPC ID. Value range: N/A
vpc_name	String	Parameter description: VPC name. Value range: N/A
created_at	String	Parameter description: Time when creation is complete. The time is in the format of timestamp, that is, the offset milliseconds from 1970-01-01 00:00:00 UTC to the specified time. Value range: N/A
product_id	String	Parameter description: Product ID. Value range: N/A
security_group_id	String	Parameter description: Security group ID. Value range: N/A
security_group_name	String	Parameter description: Security group name. Value range: N/A
subnet_id	String	Parameter description: Subnet ID. Value range: N/A
subnet_name	String	Parameter description: Subnet name. Value range: N/A

Parameter	Type	Description
subnet_cidr	String	Parameter description: Subnet route. This field is displayed only for RocketMQ 5.x. Value range: N/A
available_zones	Array of strings	Parameter description: List of AZ IDs. Value range: N/A
available_zone_names	Array of strings	Parameter description: List of AZ names.
user_id	String	Parameter description: User ID. Value range: N/A
user_name	String	Parameter description: Username. Value range: N/A
maintain_begin	String	Parameter description: Time at which the maintenance window starts. The format is <i>HH:mm:ss</i> . Value range: N/A
maintain_end	String	Parameter description: Time at which the maintenance window ends. The format is <i>HH:mm:ss</i> . Value range: N/A
enable_log_collection	Boolean	Parameter description: Whether log collection is enabled. Value range: <ul style="list-style-type: none"> • true: yes • false: no

Parameter	Type	Description
storage_space	Integer	<p>Parameter description: Storage space, in GB.</p> <p>Value range: N/A</p>
used_storage_space	Integer	<p>Parameter description: Used message storage space, in GB.</p> <p>Value range: N/A</p>
enable_publicip	Boolean	<p>Parameter description: Whether to enable public access.</p> <p>Value range:</p> <ul style="list-style-type: none"> • true: yes • false: no
publicip_id	String	<p>Parameter description: ID of the EIP bound to the instance. Use commas (,) to separate multiple EIP IDs.</p> <p>This parameter is mandatory if public access is enabled (that is, enable_publicip is set to true).</p> <p>Value range: N/A</p>
publicip_address	String	<p>Parameter description: Public IP address.</p> <p>Value range: N/A</p>
ssl_enable	Boolean	<p>Parameter description: Whether SSL is enabled.</p> <p>Value range:</p> <ul style="list-style-type: none"> • true: yes • false: no
cross_vpc_info	String	<p>Parameter description: Cross-VPC access information.</p> <p>Value range: N/A</p>

Parameter	Type	Description
storage_resource_id	String	Parameter description: Storage resource ID. Value range: N/A
storage_spec_code	String	Parameter description: Storage specification code. Value range: N/A
service_type	String	Parameter description: Service type. Value range: N/A
storage_type	String	Parameter description: Storage type. Value range: N/A
extend_times	Long	Parameter description: Extension time. Value range: N/A
ipv6_enable	Boolean	Parameter description: Whether IPv6 is enabled. Value range: <ul style="list-style-type: none"> • true: yes • false: no
support_features	String	Parameter description: Features supported by the instance. Value range: N/A
disk_encrypted	Boolean	Parameter description: Whether disk encryption is enabled. Value range: <ul style="list-style-type: none"> • true: yes • false: no

Parameter	Type	Description
ces_version	String	Parameter description: Cloud Eye version. Value range: N/A
node_num	Integer	Parameter description: Number of nodes. Value range: N/A
new_spec_billing_enable	Boolean	Parameter description: Whether billing based on new specifications is enabled. Value range: <ul style="list-style-type: none"> • true: yes • false: no
enable_acl	Boolean	Parameter description: Whether access control is enabled. Value range: <ul style="list-style-type: none"> • true: yes • false: no
broker_num	Integer	Parameter description: Number of brokers (displayed only for RocketMQ 4.8.0). Value range: N/A
dns_enable	Boolean	Parameter description: Whether to enable domain name access to an instance. Value range: <ul style="list-style-type: none"> • true: yes • false: no
namesrv_address	String	Parameter description: Metadata address. Value range: N/A

Parameter	Type	Description
namesrv_domain_name	String	Parameter description: Metadata domain name. Value range: N/A
broker_address	String	Parameter description: Service data address. Value range: N/A
public_namesrv_address	String	Parameter description: Public network metadata address. Value range: N/A
public_namesrv_domain_name	String	Parameter description: Public metadata domain name. Value range: N/A
public_broker_address	String	Parameter description: Public network service data address. Value range: N/A
grpc_address	String	Parameter description: gRPC connection address (displayed only for RocketMQ 5.x). Value range: N/A
grpc_domain_name	String	Parameter description: gRPC connection domain name (displayed only for RocketMQ 5.x). Value range: N/A
public_grpc_address	String	Parameter description: Public gRPC connection address (displayed only for RocketMQ 5.x). Value range: N/A

Parameter	Type	Description
public_grpc_domain_name	String	<p>Parameter description: Public gRPC domain name (displayed only for RocketMQ 5.x).</p> <p>Value range: N/A</p>
enterprise_project_id	String	<p>Parameter description: Enterprise project ID.</p> <p>Value range: N/A</p>
tags	Array of TagEntity objects	<p>Parameter description: Tag list.</p> <p>Value range: N/A</p>
total_storage_space	Integer	<p>Parameter description: Total storage space.</p> <p>Value range: N/A</p>
resource_spec_code	String	<p>Parameter description: Resource flavor.</p> <p>Value range: N/A</p>
produce_portion	Integer	<p>Parameter description: Production TPS proportion.</p> <p>Value range: N/A</p>
consume_portion	Integer	<p>Parameter description: Consumption TPS proportion.</p> <p>Value range: N/A</p>
dr_enable	Boolean	<p>Parameter description: Whether DR is enabled.</p> <p>Value range: N/A</p>

Parameter	Type	Description
config_ssl_need_restart_process	Boolean	<p>Parameter description: Whether a restart is required to configure SSL.</p> <p>Value range: N/A</p>
tls_mode	String	<p>Parameter description: Security protocol used by the instance.</p> <p>Value range: N/A</p>

Table 5-12 TagEntity

Parameter	Type	Description
key	String	<p>Definition: Tag key.</p> <p>Constraints:</p> <ul style="list-style-type: none"> • Cannot be left blank. • Must be unique for the same instance. • Can contain 1 to 128 characters. • Can contain letters, digits, spaces, and special characters _.:=-@ • Cannot start with sys • Cannot start or end with a space. <p>Range: N/A</p> <p>Default Value: N/A</p>

Parameter	Type	Description
value	String	<p>Definition: Tag value.</p> <p>Constraints:</p> <ul style="list-style-type: none">• Can contain 0 to 255 characters.• Can contain letters, digits, spaces, and special characters _.:=-@• Cannot start or end with a space. <p>Range: N/A</p> <p>Default Value: N/A</p>

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" : "0a0f1fcf-f019-458d-b9e5-301867394d50",  
    "subnet_name" : "subnet-test",  
    "subnet_cidr" : "192.168.64.0/18",  
    "available_zones" : [ "9f1c5806706d4c1fb0eb72f0a9b18c77" ],  
    "available_zone_names" : [ "AZ3" ],  
    "user_id" : "0b01ffb53600d4671fa8c00673c71260",  
    "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" :
"kafka.crossvpc.domain.enable,auto.create.topics.enable,rabbitmq.plugin.management,support.permissive.mode,auto_topic_switch,feature.physerver.kafka.user.manager,kafka.ssl.2way.modify.enable,kafka.new.pod.port,message_trace_enable,features.pod.token.access,log.enable,features.log.collection,max.connections,rabbitmq.manage.support.replica_port_standalone,feature.physerver.kafka.topic.accesspolicy.enable,kafka.quota.monit,or,rocketmq.acl,roma_app_enable,support.kafka.producer.ip.enable,new.authinfo.enable.kafka.quota,rabbitmq_run_log_enable,max.ssl.connections,route,message_trace_v2_enable,kafka.config.dynamic.modify.enable,feature.physerver.kafka.topic.modify.enable.topic.quota,kafka.ssl.cert.modify.enable,roma.user.manage.no.support,auto.create.groups.enable,feature.physerver.kafka.pulbic.dynamic,kafka.config.static.modify.enable",
"disk_encrypted" : false,
"ces_version" : "linux,v1,v2,v3,v4",
"new_spec_billing_enable" : true,
"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"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

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

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

public class ShowInstanceSolution {

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

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

```
RocketMQClient client = RocketMQClient.newBuilder()
    .withCredential(auth)
    .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))
    .build();
ShowInstanceRequest request = new ShowInstanceRequest();
request.withInstanceId("{instance_id}");
try {
    ShowInstanceResponse response = client.showInstance(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

    credentials = BasicCredentials(ak, sk, projectId)

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

    try:
        request = ShowInstanceRequest()
        request.instance_id = "{instance_id}"
        response = client.show_instance(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    rocketmq "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/rocketmq/v2"
```

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

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

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

    client := rocketmq.NewRocketMQClient(
        rocketmq.RocketMQClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>").
            WithCredential(auth).
            Build()))

    request := &model.ShowInstanceRequest{}
    request.InstanceId = "{instance_id}"
    response, err := client.ShowInstance(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

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

Status Codes

Status Code	Description
200	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.

Calling Method

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

URI

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

Table 5-13 Path Parameters

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

Request Parameters

None

Response Parameters

Status code: 204

Specified instance deleted successfully.

None

Example Requests

Deleting an instance

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

Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

Java

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

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

```
public class DeleteInstanceSolution {  
  
    public static void main(String[] args) {  
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great  
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or  
        // environment variables and decrypted during use to ensure security.  
        // In this example, AK and SK are stored in environment variables for authentication. Before running  
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
        String ak = System.getenv("CLOUD_SDK_AK");  
        String sk = System.getenv("CLOUD_SDK_SK");  
        String projectId = "{project_id}";  
  
        ICredential auth = new BasicCredentials()  
            .withProjectId(projectId)  
            .withAk(ak)  
            .withSk(sk);  
  
        RocketMQClient client = RocketMQClient.newBuilder()  
            .withCredential(auth)  
            .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))  
            .build();  
        DeleteInstanceRequest request = new DeleteInstanceRequest();  
        request.withInstanceId("{instance_id}");  
        try {  
            DeleteInstanceResponse response = client.deleteInstance(request);  
            System.out.println(response.toString());  
        } catch (ConnectionException e) {  
            e.printStackTrace();  
        } catch (RequestTimeoutException e) {  
            e.printStackTrace();  
        } catch (ServiceResponseException e) {  
            e.printStackTrace();  
            System.out.println(e.getHttpStatus());  
            System.out.println(e.getRequestId());  
            System.out.println(e.getErrorCode());  
            System.out.println(e.getErrorMsg());  
        }  
    }  
}
```

Python

```
# coding: utf-8  
  
import os  
from huaweicloudsdkcore.auth.credentials import BasicCredentials  
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion  
from huaweicloudsdkcore.exceptions import exceptions  
from huaweicloudsdkrocketmq.v2 import *  
  
if __name__ == "__main__":  
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    // variables and decrypted during use to ensure security.  
    # In this example, AK and SK are stored in environment variables for authentication. Before running this  
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak = os.environ["CLOUD_SDK_AK"]  
    sk = os.environ["CLOUD_SDK_SK"]  
    projectId = "{project_id}"  
  
    credentials = BasicCredentials(ak, sk, projectId)  
  
    client = RocketMQClient.new_builder() \  
        .with_credentials(credentials) \  
        .with_region(RocketMQRegion.value_of("<YOUR REGION>")) \  
        .build()  
  
    try:
```

```
request = DeleteInstanceRequest()
request.instance_id = "{instance_id}"
response = client.delete_instance(request)
print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

```
package main

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

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

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

    client := rocketmq.NewRocketMQClient(
        rocketmq.RocketMQClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>").
            WithCredential(auth).
            Build()))

    request := &model.DeleteInstanceRequest{}
    request.InstanceId = "{instance_id}"
    response, err := client.DeleteInstance(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

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

Status Codes

Status Code	Description
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.

Calling Method

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

URI

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

Table 5-14 Path Parameters

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

Request Parameters

Table 5-15 Request body parameters

Parameter	Mandatory	Type	Description
name	No	String	Instance name. An instance name consists of 4 to 64 characters including letters, digits, and hyphens (-) and must start with a letter.

Parameter	Mandatory	Type	Description
description	No	String	<p>Description of an instance. The description supports up to 1024 characters.</p> <p>NOTE The backslash () and quotation mark ("") are special characters for JSON messages. When using these characters in a parameter value, add the escape character () before the characters, for example, \ and ".</p>
security_group_id	No	String	<p>Security group ID. To obtain it, log in to the VPC console and view the security group ID on the security group details page.</p>
enable_acl	No	Boolean	ACL.
enable_publicip	No	Boolean	Whether to enable public access.
publicip_id	No	String	<p>ID of the EIP bound to the instance. Use commas (,) to separate multiple EIP IDs. This parameter is mandatory if public access is enabled (that is, enable_publicip is set to true).</p>

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

SDK Sample Code

The SDK sample code is as follows.

Java

Modifying the name and description of a RocketMQ instance

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

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

public class UpdateInstanceSolution {

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

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

        RocketMQClient client = RocketMQClient.newBuilder()
            .withCredential(auth)
            .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))
            .build();
        UpdateInstanceRequest request = new UpdateInstanceRequest();
        request.withInstanceId("{instance_id}");
        UpdateInstanceReq body = new UpdateInstanceReq();
        body.withDescription("RocketMQ description");
        body.withName("rocketmq001");
        request.withBody(body);
        try {
            UpdateInstanceResponse response = client.updateInstance(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatus());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

Modifying the name and description of a RocketMQ instance

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

    credentials = BasicCredentials(ak, sk, projectId)

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

    try:
        request = UpdateInstanceRequest()
        request.instance_id = "{instance_id}"
        request.body = UpdateInstanceReq(
            description="RocketMQ description",
            name="rocketmq001"
        )
        response = client.update_instance(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

Modifying the name and description of a RocketMQ instance

```
package main

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

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

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

client := rocketmq.NewRocketMQClient(
    rocketmq.RocketMQClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>").
        WithCredential(auth).
        Build())

request := &model.UpdateInstanceRequest{}
request.InstanceId = "{instance_id}"
descriptionUpdateInstanceReq:= "RocketMQ description"
nameUpdateInstanceReq:= "rocketmq001"
request.Body = &model.UpdateInstanceReq{
    Description: &descriptionUpdateInstanceReq,
    Name: &nameUpdateInstanceReq,
}
response, err := client.UpdateInstance(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
```

More

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

Status Codes

Status Code	Description
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.**

Calling Method

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

URI

POST /v2/{project_id}/instances/action

Table 5-16 Path Parameters

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

Request Parameters

Table 5-17 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: delete .
all_failure	No	String	When set to reliability , this parameter indicates that all RocketMQ instances that fail to be created will be deleted.

Response Parameters

Status code: 200

Table 5-18 Response body parameters

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

Table 5-19 results

Parameter	Type	Description
result	String	Operation result.
instance	String	Instance ID.

Status code: 204

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

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"
  } ]
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

- Batch deleting RocketMQ instances

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

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

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

public class BatchDeleteInstancesSolution {

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

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

```
String ak = System.getenv("CLOUD_SDK_AK");
String sk = System.getenv("CLOUD_SDK_SK");
String projectId = "{project_id}";

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

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

BatchDeleteInstancesRequest request = new BatchDeleteInstancesRequest();
BatchDeleteInstanceReq body = new BatchDeleteInstanceReq();
List<String> listbodyInstances = new ArrayList<>();
listbodyInstances.add("54602a9d-5e22-4239-9123-77e350df4a34");
listbodyInstances.add("7166cdea-dbad-4d79-9610-7163e6f8b640");
body.withAction(BatchDeleteInstanceReq.ActionEnum.fromValue("delete"));
body.withInstances(listbodyInstances);
request.withBody(body);
try {
    BatchDeleteInstancesResponse response = client.batchDeleteInstances(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatus());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

- Deleting all RocketMQ instances that fail to be created

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

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

public class BatchDeleteInstancesSolution {

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

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

```
RocketMQClient client = RocketMQClient.newBuilder()
    .withCredential(auth)
    .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))
    .build();
BatchDeleteInstancesRequest request = new BatchDeleteInstancesRequest();
BatchDeleteInstanceReq body = new BatchDeleteInstanceReq();
body.withAllFailure(BatchDeleteInstanceReq.AllFailureEnum.fromValue("reliability"));
body.setAction(BatchDeleteInstanceReq.ActionEnum.fromValue("delete"));
request.withBody(body);
try {
    BatchDeleteInstancesResponse response = client.batchDeleteInstances(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatus());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

- Batch deleting RocketMQ instances

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

    credentials = BasicCredentials(ak, sk, projectId)

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

    try:
        request = BatchDeleteInstancesRequest()
        listInstancesbody = [
            "54602a9d-5e22-4239-9123-77e350df4a34",
            "7166cdea-dbad-4d79-9610-7163e6f8b640"
        ]
        request.body = BatchDeleteInstanceReq(
            action="delete",
            instances=listInstancesbody
        )
        response = client.batch_delete_instances(request)
        print(response)
    except exceptions.ClientRequestException as e:
```

```
print(e.status_code)
print(e.request_id)
print(e.error_code)
print(e.error_msg)
```

- Deleting all RocketMQ instances that fail to be created

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

    credentials = BasicCredentials(ak, sk, projectId)

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

    try:
        request = BatchDeleteInstancesRequest()
        request.body = BatchDeleteInstanceReq(
            all_failure="reliability",
            action="delete"
        )
        response = client.batch_delete_instances(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

- Batch deleting RocketMQ instances

```
package main

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

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

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

client := rocketmq.NewRocketMQClient(
    rocketmq.RocketMQClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>").
        WithCredential(auth).
        Build())

request := &model.BatchDeleteInstancesRequest{}
var listInstancesbody = []string{
    "54602a9d-5e22-4239-9123-77e350df4a34",
    "7166cdea-dbad-4d79-9610-7163e6f8b640",
}
request.Body = &model.BatchDeleteInstanceReq{
    Action: model.GetBatchDeleteInstanceReqActionEnum().DELETE,
    Instances: &listInstancesbody,
}
response, err := client.BatchDeleteInstances(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
}
```

- Deleting all RocketMQ instances that fail to be created

```
package main

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

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

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

    client := rocketmq.NewRocketMQClient(
        rocketmq.RocketMQClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>").
            WithCredential(auth).
            Build())

    request := &model.BatchDeleteInstancesRequest{}
    allFailureBatchDeleteInstanceReq:= model.GetBatchDeleteInstanceReqAllFailureEnum().RELIABILITY
    request.Body = &model.BatchDeleteInstanceReq{
        AllFailure: &allFailureBatchDeleteInstanceReq,
        Action: model.GetBatchDeleteInstanceReqActionEnum().DELETE,
    }
}
```

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

More

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

Status Codes

Status Code	Description
200	Instances deleted.
204	All RocketMQ instances that fail to be created are deleted successfully.

Error Codes

See [Error Codes](#).

5.1.7 Querying the Broker List

Function

This API is used to query the list of brokers.

Calling Method

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

URI

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

Table 5-20 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	<p>Parameter description: Project ID. For details, see Obtaining a Project ID.</p> <p>Constraints: N/A</p> <p>Value range: N/A</p> <p>Default value: N/A</p>
instance_id	Yes	String	<p>Parameter description: Instance ID. To obtain it, log in to the RocketMQ console and find the instance ID on the RocketMQ instance details page.</p> <p>Constraints: N/A</p> <p>Value range: N/A</p> <p>Default value: N/A</p>

Request Parameters

None

Response Parameters

Status code: 200

Table 5-21 Response body parameters

Parameter	Type	Description
total	Number	<p>Parameter description: Total.</p> <p>Value range: N/A</p>

Parameter	Type	Description
next_offset	Integer	Parameter description: Offset of the next page. Value range: N/A
previous_offset	Integer	Parameter description: Offset of the previous page. Value range: N/A
brokers	Array of brokers objects	Parameter description: Broker list.

Table 5-22 brokers

Parameter	Type	Description
ids	Array of numbers	Parameter description: All broker IDs.
broker_name	String	Broker name. Parameter description: Total. Value range: 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
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

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

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

public class ListBrokersSolution {

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

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

        RocketMQClient client = RocketMQClient.newBuilder()
            .withCredential(auth)
            .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))
            .build();
        ListBrokersRequest request = new ListBrokersRequest();
        request.withInstanceId("{instance_id}");
        try {
            ListBrokersResponse response = client.listBrokers(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *
```

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

    credentials = BasicCredentials(ak, sk, projectId)

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

    try:
        request = ListBrokersRequest()
        request.instance_id = "{instance_id}"
        response = client.list_brokers(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

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

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

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

    client := rocketmq.NewRocketMQClient(
        rocketmq.RocketMQClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListBrokersRequest{}
    request.InstanceId = "{instance_id}"
    response, err := client.ListBrokers(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

```
}
```

More

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

Status Codes

Status Code	Description
200	RocketMQ brokers queried successfully.

Error Codes

See [Error Codes](#).

5.1.8 Enabling Domain Name Access to a RocketMQ Instance

Function

This API is used to enable domain name access to a RocketMQ instance.

Calling Method

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

URI

POST /v2/{project_id}/rocketmq/instances/{instance_id}/dns

Table 5-23 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain it, see Obtaining a Project ID .
instance_id	Yes	String	Instance ID, which can be obtained from Querying All Instances .

Request Parameters

None

Response Parameters

Status code: 204

Successful

Status code: 400

Table 5-24 Response body parameters

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

Example Requests

Enabling domain name access to a RocketMQ instance

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

Example Responses

Status code: 400

Failed

```
{  
    "error_code" : "DMS.111501035",  
    "error_msg" : "dns already enabled"  
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

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

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

public class EnableDnsSolution {

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

```
String sk = System.getenv("CLOUD_SDK_SK");
String projectId = "{project_id}";

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

RocketMQClient client = RocketMQClient.newBuilder()
    .withCredential(auth)
    .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))
    .build();
EnableDnsRequest request = new EnableDnsRequest();
request.withInstanceId("{instance_id}");
try {
    EnableDnsResponse response = client.enableDns(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

    credentials = BasicCredentials(ak, sk, projectId)

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

    try:
        request = EnableDnsRequest()
        request.instance_id = "{instance_id}"
        response = client.enable_dns(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

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

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

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

    client := rocketmq.NewRocketMQClient(
        rocketmq.RocketMQClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>").
            WithCredential(auth).
            Build()))

    request := &model.EnableDnsRequest{}
    request.InstanceId = "{instance_id}"
    response, err := client.EnableDns(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

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

Status Codes

Status Code	Description
204	Successful
400	Failed

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.

Calling Method

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

URI

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

Table 5-25 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Parameter description: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: N/A Default value: N/A
instance_id	Yes	String	Parameter description: Instance ID. To obtain it, log in to the RocketMQ console and find the instance ID on the RocketMQ instance details page. Constraints: N/A Value range: N/A Default value: N/A

Table 5-26 Query Parameters

Parameter	Mandatory	Type	Description
group	No	String	Parameter description: Consumer group name. Constraints: N/A Value range: N/A Default value: N/A
limit	No	Integer	Parameter description: Number of records to query. Constraints: N/A Value range: N/A Default value: 10
offset	No	Integer	Parameter description: Offset where the query starts. Constraints: N/A Value range: ≥ 0 Default value: 0

Request Parameters

None

Response Parameters

Status code: 200

Table 5-27 Response body parameters

Parameter	Type	Description
total	Number	Parameter description: Total number of consumer groups. Value range: N/A
groups	Array of ConsumerGroup objects	Parameter description: Consumer group list.
max	Integer	Parameter description: Maximum number of consumer groups that can be created. Value range: N/A
remaining	Integer	Parameter description: Remaining number of consumer groups that can be created. Value range: N/A
next_offset	Integer	Parameter description: Offset of the next page. Value range: N/A
previous_offset	Integer	Parameter description: Offset of the previous page. Value range: N/A

Table 5-28 ConsumerGroup

Parameter	Type	Description
enabled	Boolean	Parameter description: Whether consumption is allowed. Value range: <ul style="list-style-type: none"> • true: yes • false: no

Parameter	Type	Description
broadcast	Boolean	Parameter description: Whether to broadcast. Value range: <ul style="list-style-type: none"> • true: yes • false: no
brokers	Array of strings	Parameter description: List of associated brokers.
name	String	Parameter description: Consumer group name. Value range: N/A
group_desc	String	Parameter description: Consumer group description. Value range: N/A
retry_max_time	Integer	Parameter description: Maximum number of retries. Value range: 1–16
createdAt	Long	Parameter description: Creation timestamp. Value range: N/A
permissions	Array of strings	Parameter description: Permission set.
consume_orderly	Boolean	Parameter description: Whether orderly consumption is enabled. Value range: <ul style="list-style-type: none"> • true: yes • false: no

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" ],  
        "createdAt" : 1709087952686,  
        "permissions" : [ ],  
        "retry_max_time" : 16,  
        "consume_orderly" : false  
    } ],  
    "max" : 4000,  
    "remaining" : 3999,  
    "next_offset" : -1,  
    "previous_offset" : -1  
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;  
  
import com.huaweicloud.sdk.core.auth.ICredential;  
import com.huaweicloud.sdk.core.auth.BasicCredentials;  
import com.huaweicloud.sdk.core.exception.ConnectionException;  
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;  
import com.huaweicloud.sdk.core.exception.ServiceResponseException;  
import com.huaweicloud.sdk.rocketmq.v2.region.RocketMQRegion;  
import com.huaweicloud.sdk.rocketmq.v2.*;  
import com.huaweicloud.sdk.rocketmq.v2.model.*;  
  
public class ListInstanceConsumerGroupsSolution {  
  
    public static void main(String[] args) {  
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great  
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or  
        // environment variables and decrypted during use to ensure security.  
        // In this example, AK and SK are stored in environment variables for authentication. Before running  
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
        String ak = System.getenv("CLOUD_SDK_AK");  
        String sk = System.getenv("CLOUD_SDK_SK");  
        String projectId = "{project_id}";  
  
        ICredential auth = new BasicCredentials()  
            .withProjectId(projectId)  
            .withAk(ak)  
            .withSk(sk);  
  
        RocketMQClient client = RocketMQClient.newBuilder()  
            .withCredential(auth)  
            .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))  
            .build();  
        ListInstanceConsumerGroupsRequest request = new ListInstanceConsumerGroupsRequest();  
        request.withInstanceId("{instance_id}");  
        try {  
            ListInstanceConsumerGroupsResponse response = client.listInstanceConsumerGroups(request);  
        }
```

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

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

    credentials = BasicCredentials(ak, sk, projectId)

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

    try:
        request = ListInstanceConsumerGroupsRequest()
        request.instance_id = "{instance_id}"
        response = client.list_instance_consumer_groups(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

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

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
```

```
// In this example, AK and SK are stored in environment variables for authentication. Before running this
example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
ak := os.Getenv("CLOUD_SDK_AK")
sk := os.Getenv("CLOUD_SDK_SK")
projectId := "{project_id}"

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

client := rocketmq.NewRocketMQClient(
    rocketmq.RocketMQClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>").
        WithCredential(auth).
        Build())

request := &model.ListInstanceConsumerGroupsRequest{}
request.InstanceId = "{instance_id}"
response, err := client.ListInstanceConsumerGroups(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
```

More

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

Status Codes

Status Code	Description
200	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.

Calling Method

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

URI

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

Table 5-29 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Parameter description: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: N/A Default value: N/A
instance_id	Yes	String	Parameter description: Instance ID. To obtain it, log in to the RocketMQ console and find the instance ID on the RocketMQ instance details page. Constraints: N/A Value range: N/A Default value: N/A

Table 5-30 Query Parameters

Parameter	Mandatory	Type	Description
action	No	String	<p>Parameter description: This parameter is used to delete consumer groups in batches. If it is not set, a consumer group will be created.</p> <p>Constraints: N/A</p> <p>Value range: • delete: Delete consumer groups in batches.</p> <p>Default value: N/A</p>

Request Parameters

Table 5-31 Request body parameters

Parameter	Mandatory	Type	Description
groups	No	Array of strings	<p>Parameter description: List of consumer groups to be deleted.</p>
name	No	String	<p>Parameter description: Consumer group name.</p> <p>Constraints: Enter 3 to 64 characters. Use only letters, digits, percent (%), vertical bars (), hyphens (-), and underscores (_).</p> <p>Value range: N/A</p> <p>Default value: N/A</p>
brokers	No	Array of strings	<p>Parameter description: Associated brokers.</p> <p>Constraints: This parameter is mandatory only for RocketMQ 4.8.0 instances.</p>

Parameter	Mandatory	Type	Description
broadcast	No	Boolean	<p>Parameter description: Whether to broadcast.</p> <p>Constraints: N/A</p> <p>Value range:</p> <ul style="list-style-type: none"> • true: yes • false: no <p>Default value: N/A</p>
retry_max_time	No	Integer	<p>Parameter description: Maximum number of retries</p> <p>Constraints: N/A</p> <p>Value range: 1–16</p> <p>Default value: N/A</p>
enabled	No	Boolean	<p>Whether consumption is allowed.</p> <p>Parameter description: Whether consumption is allowed.</p> <p>Constraints: N/A</p> <p>Value range:</p> <ul style="list-style-type: none"> • true: yes • false: no <p>Default value: N/A</p>

Parameter	Mandatory	Type	Description
consume_orderly	No	Boolean	<p>Parameter description: Indicates whether to enable ordered consumption.</p> <p>Constraints: This parameter is mandatory only for RocketMQ 5.x instances.</p> <p>Value range:</p> <ul style="list-style-type: none"> • true: yes • false: no <p>Default value: N/A</p>
group_desc	No	String	<p>Parameter description: Consumer group description.</p> <p>Constraints: N/A</p> <p>Value range: 0–200</p> <p>Default value: N/A</p>

Response Parameters

Status code: 200

Table 5-32 Response body parameters

Parameter	Type	Description
job_id	String	<p>Parameter description: ID of the job for deleting consumer groups.</p> <p>Value range: N/A</p>
name	String	<p>Parameter description: ID of the consumer group that is successfully created.</p> <p>Value range: N/A</p>

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
}
```

- For RocketMQ 5.x instances: Creating a consumer group with broadcast and orderly consumption disabled, and max. 16 retries

```
POST https://[endpoint]/v2/[project_id]/instances/{instance_id}/groups

{
  "name" : "consumer-group-test",
  "group_desc" : "group_description",
  "consume_orderly" : false,
  "broadcast" : false,
  "retry_max_time" : 16
}
```

- Deleting consumer group consumer-group-test.

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

{
  "groups" : [ "consumer-group-test" ]
}
```

Example Responses

Status code: 200

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

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

SDK Sample Code

The SDK sample code is as follows.

Java

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

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

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

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

```
public class CreateConsumerGroupOrBatchDeleteConsumerGroupSolution {

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

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

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

        CreateConsumerGroupOrBatchDeleteConsumerGroupRequest request = new
CreateConsumerGroupOrBatchDeleteConsumerGroupRequest();
        request.withInstanceId("{instance_id}");
        CreateConsumerGroupOrBatchDeleteConsumerGroupReq body = new
CreateConsumerGroupOrBatchDeleteConsumerGroupReq();
        List<String> listbodyBrokers = new ArrayList<>();
        listbodyBrokers.add("broker-0");
        body.withGroupDesc("group_description");
        body.withName("consumer-group-test");
        body.withRetryMaxTime(16);
        body.withBrokers(listbodyBrokers);
        body.withBroadcast(false);
        request.withBody(body);
        try {
            CreateConsumerGroupOrBatchDeleteConsumerGroupResponse response =
client.createConsumerGroupOrBatchDeleteConsumerGroup(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatus());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

- For RocketMQ 5.x instances: Creating a consumer group with broadcast and orderly consumption disabled, and max. 16 retries

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

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

public class CreateConsumerGroupOrBatchDeleteConsumerGroupSolution {
```

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

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

    RocketMQClient client = RocketMQClient.newBuilder()
        .withCredential(auth)
        .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))
        .build();
    CreateConsumerGroupOrBatchDeleteConsumerGroupRequest request = new
CreateConsumerGroupOrBatchDeleteConsumerGroupRequest();
    request.withInstanceId("{instance_id}");
    CreateConsumerGroupOrBatchDeleteConsumerGroupReq body = new
CreateConsumerGroupOrBatchDeleteConsumerGroupReq();
    body.withConsumeOrderly(false);
    body.withGroupDesc("group_description");
    body.withName("consumer-group-test");
    body.withRetryMaxTime(16);
    body.withBroadcast(false);
    request.withBody(body);
    try {
        CreateConsumerGroupOrBatchDeleteConsumerGroupResponse response =
client.createConsumerGroupOrBatchDeleteConsumerGroup(request);
        System.out.println(response.toString());
    } catch (ConnectionException e) {
        e.printStackTrace();
    } catch (RequestTimeoutException e) {
        e.printStackTrace();
    } catch (ServiceResponseException e) {
        e.printStackTrace();
        System.out.println(e.getHttpStatus());
        System.out.println(e.getRequestId());
        System.out.println(e.getErrorCode());
        System.out.println(e.getErrorMsg());
    }
}
}
```

- Deleting consumer group consumer-group-test.

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

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

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

public class CreateConsumerGroupOrBatchDeleteConsumerGroupSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
```

```
environment variables and decrypted during use to ensure security.  
    // In this example, AK and SK are stored in environment variables for authentication. Before  
    running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local  
    environment  
    String ak = System.getenv("CLOUD_SDK_AK");  
    String sk = System.getenv("CLOUD_SDK_SK");  
    String projectId = "{project_id}";  
  
    ICredential auth = new BasicCredentials()  
        .withProjectId(projectId)  
        .withAk(ak)  
        .withSk(sk);  
  
    RocketMQClient client = RocketMQClient.newBuilder()  
        .withCredential(auth)  
        .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))  
        .build();  
    CreateConsumerGroupOrBatchDeleteConsumerGroupRequest request = new  
CreateConsumerGroupOrBatchDeleteConsumerGroupRequest();  
    request.withInstanceId("{instance_id}");  
    CreateConsumerGroupOrBatchDeleteConsumerGroupReq body = new  
CreateConsumerGroupOrBatchDeleteConsumerGroupReq();  
    List<String> listbodyGroups = new ArrayList<>();  
    listbodyGroups.add("consumer-group-test");  
    body.withGroups(listbodyGroups);  
    request.withBody(body);  
    try {  
        CreateConsumerGroupOrBatchDeleteConsumerGroupResponse response =  
client.createConsumerGroupOrBatchDeleteConsumerGroup(request);  
        System.out.println(response.toString());  
    } catch (ConnectionException e) {  
        e.printStackTrace();  
    } catch (RequestTimeoutException e) {  
        e.printStackTrace();  
    } catch (ServiceResponseException e) {  
        e.printStackTrace();  
        System.out.println(e.getHttpStatusCode());  
        System.out.println(e.getRequestId());  
        System.out.println(e.getErrorCode());  
        System.out.println(e.getErrorMsg());  
    }  
}  
}
```

Python

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

```
# coding: utf-8  
  
import os  
from huaweicloudsdkcore.auth.credentials import BasicCredentials  
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion  
from huaweicloudsdkcore.exceptions import exceptions  
from huaweicloudsdkrocketmq.v2 import *  
  
if __name__ == "__main__":  
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great  
    # security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or  
    # environment variables and decrypted during use to ensure security.  
    # In this example, AK and SK are stored in environment variables for authentication. Before  
    # running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local  
    # environment  
    ak = os.environ["CLOUD_SDK_AK"]  
    sk = os.environ["CLOUD_SDK_SK"]  
    projectId = "{project_id}"  
  
    credentials = BasicCredentials(ak, sk, projectId)
```

```
client = RocketMQClient.new_builder() \
    .with_credentials(credentials) \
    .with_region(RocketMQRegion.value_of("<YOUR REGION>")) \
    .build()

try:
    request = CreateConsumerGroupOrBatchDeleteConsumerGroupRequest()
    request.instance_id = "{instance_id}"
    listBrokersbody = [
        "broker-0"
    ]
    request.body = CreateConsumerGroupOrBatchDeleteConsumerGroupReq(
        group_desc="group_description",
        name="consumer-group-test",
        retry_max_time=16,
        brokers=listBrokersbody,
        broadcast=False
    )
    response = client.create_consumer_group_or_batch_delete_consumer_group(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

- For RocketMQ 5.x instances: Creating a consumer group with broadcast and orderly consumption disabled, and max. 16 retries

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

    credentials = BasicCredentials(ak, sk, projectId)

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

    try:
        request = CreateConsumerGroupOrBatchDeleteConsumerGroupRequest()
        request.instance_id = "{instance_id}"
        request.body = CreateConsumerGroupOrBatchDeleteConsumerGroupReq(
            consume_orderly=False,
            group_desc="group_description",
            name="consumer-group-test",
            retry_max_time=16,
            broadcast=False
        )
        response = client.create_consumer_group_or_batch_delete_consumer_group(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
```

```
print(e.request_id)
print(e.error_code)
print(e.error_msg)
```

- Deleting consumer group consumer-group-test.

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

    credentials = BasicCredentials(ak, sk, projectId)

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

    try:
        request = CreateConsumerGroupOrBatchDeleteConsumerGroupRequest()
        request.instance_id = "{instance_id}"
        listGroupsbody = [
            "consumer-group-test"
        ]
        request.body = CreateConsumerGroupOrBatchDeleteConsumerGroupReq(
            groups=listGroupsbody
        )
        response = client.create_consumer_group_or_batch_delete_consumer_group(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

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

```
package main

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

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

```

environment
ak := os.Getenv("CLOUD_SDK_AK")
sk := os.Getenv("CLOUD_SDK_SK")
projectId := "{project_id}"

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

client := rocketmq.NewRocketMQClient(
    rocketmq.RocketMQClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>").
        WithCredential(auth).
        Build())

request := &model.CreateConsumerGroupOrBatchDeleteConsumerGroupRequest{}
request.InstanceId = "{instance_id}"
var listBrokersbody = []string{
    "broker-0",
}
groupDescCreateConsumerGroupOrBatchDeleteConsumerGroupReq:= "group_description"
nameCreateConsumerGroupOrBatchDeleteConsumerGroupReq:= "consumer-group-test"
retryMaxTimeCreateConsumerGroupOrBatchDeleteConsumerGroupReq:= int32(16)
broadcastCreateConsumerGroupOrBatchDeleteConsumerGroupReq:= false
request.Body = &model.CreateConsumerGroupOrBatchDeleteConsumerGroupReq{
    GroupDesc: &groupDescCreateConsumerGroupOrBatchDeleteConsumerGroupReq,
    Name: &nameCreateConsumerGroupOrBatchDeleteConsumerGroupReq,
    RetryMaxTime: &retryMaxTimeCreateConsumerGroupOrBatchDeleteConsumerGroupReq,
    Brokers: &listBrokersbody,
    Broadcast: &broadcastCreateConsumerGroupOrBatchDeleteConsumerGroupReq,
}
response, err := client.CreateConsumerGroupOrBatchDeleteConsumerGroup(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
}

```

- For RocketMQ 5.x instances: Creating a consumer group with broadcast and orderly consumption disabled, and max. 16 retries

```

package main

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

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

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

```

```
client := rocketmq.NewRocketMQClient(
    rocketmq.RocketMQClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.CreateConsumerGroupOrBatchDeleteConsumerGroupRequest{}
request.InstanceId = "{instance_id}"
consumeOrderlyCreateConsumerGroupOrBatchDeleteConsumerGroupReq:= false
groupDescCreateConsumerGroupOrBatchDeleteConsumerGroupReq:= "group_description"
nameCreateConsumerGroupOrBatchDeleteConsumerGroupReq:= "consumer-group-test"
retryMaxTimeCreateConsumerGroupOrBatchDeleteConsumerGroupReq:= int32(16)
broadcastCreateConsumerGroupOrBatchDeleteConsumerGroupReq:= false
request.Body = &model.CreateConsumerGroupOrBatchDeleteConsumerGroupReq{
    ConsumeOrderly: &consumeOrderlyCreateConsumerGroupOrBatchDeleteConsumerGroupReq,
    GroupDesc: &groupDescCreateConsumerGroupOrBatchDeleteConsumerGroupReq,
    Name: &nameCreateConsumerGroupOrBatchDeleteConsumerGroupReq,
    RetryMaxTime: &retryMaxTimeCreateConsumerGroupOrBatchDeleteConsumerGroupReq,
    Broadcast: &broadcastCreateConsumerGroupOrBatchDeleteConsumerGroupReq,
}
response, err := client.CreateConsumerGroupOrBatchDeleteConsumerGroup(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
}
```

- Deleting consumer group consumer-group-test.

```
package main

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

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

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

    client := rocketmq.NewRocketMQClient(
        rocketmq.RocketMQClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.CreateConsumerGroupOrBatchDeleteConsumerGroupRequest{}
    request.InstanceId = "{instance_id}"
    var listGroupsbody = []string{
        "consumer-group-test",
    }
    request.Body = &model.CreateConsumerGroupOrBatchDeleteConsumerGroupReq{
        Groups: &listGroupsbody,
    }
}
```

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

More

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

Status Codes

Status Code	Description
200	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.

Calling Method

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

URI

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

Table 5-33 Path Parameters

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

Request Parameters

Table 5-34 Request body parameters

Parameter	Mandatory	Type	Description
groups	No	Array of BatchUpdateConsumerGroup objects	Consumer group list.

Table 5-35 BatchUpdateConsumerGroup

Parameter	Mandatory	Type	Description
name	No	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.
consume_orderly	No	Boolean	Whether to enable orderly consumption (mandatory only for RocketMQ 5.x instances).
group_desc	No	String	Consumer group description. 0 to 200 characters.

Response Parameters

Status code: 200

Table 5-36 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"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

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

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

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

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

public class BatchUpdateConsumerGroupSolution {

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

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

        RocketMQClient client = RocketMQClient.newBuilder()
            .withCredential(auth)
            .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))
            .build();
    }
}
```

```
BatchUpdateConsumerGroupRequest request = new BatchUpdateConsumerGroupRequest();
request.withInstanceId("{instance_id}");
BatchUpdateConsumerGroupReq body = new BatchUpdateConsumerGroupReq();
List<BatchUpdateConsumerGroup> listbodyGroups = new ArrayList<>();
listbodyGroups.add(
    new BatchUpdateConsumerGroup()
        .withName("consumer-group-test")
        .withBroadcast(false)
        .withRetryMaxTime(16)
        .withEnabled(true)
        .withConsumeOrderly(false)
);
body.withGroups(listbodyGroups);
request.withBody(body);
try {
    BatchUpdateConsumerGroupResponse response = client.batchUpdateConsumerGroup(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

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

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

    credentials = BasicCredentials(ak, sk, projectId)

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

    try:
        request = BatchUpdateConsumerGroupRequest()
        request.instance_id = "{instance_id}"
        listGroupsbody = [
            BatchUpdateConsumerGroup(
                name="consumer-group-test",
                broadcast=False,
                retry_max_time=16,
```

```
        enabled=True,
        consume_orderly=False
    )
]
request.body = BatchUpdateConsumerGroupReq(
    groups=listGroupsbody
)
response = client.batch_update_consumer_group(request)
print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

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

```
package main

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

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

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

    client := rocketmq.NewRocketMQClient(
        rocketmq.RocketMQClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>").
            WithCredential(auth).
            Build())

    request := &model.BatchUpdateConsumerGroupRequest{}
    request.InstanceId = "{instance_id}"
    nameGroups:= "consumer-group-test"
    broadcastGroups:= false
    retryMaxTimeGroups:= int32(16)
    enabledGroups:= true
    consumeOrderlyGroups:= false
    var listGroupsbody = []model.BatchUpdateConsumerGroup{
        {
            Name: &nameGroups,
            Broadcast: &broadcastGroups,
            RetryMaxTime: &retryMaxTimeGroups,
            Enabled: &enabledGroups,
            ConsumeOrderly: &consumeOrderlyGroups,
        },
    }
    request.Body = &model.BatchUpdateConsumerGroupReq{
```

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

More

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

Status Codes

Status Code	Description
200	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.

Calling Method

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

URI

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

Table 5-37 Path Parameters

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

Request Parameters

None

Response Parameters

Status code: 204

Table 5-38 Response body parameters

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

Example Requests

Deleting a specified consumer group

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

Example Responses

Status code: 204

The specified consumer group is deleted.

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

SDK Sample Code

The SDK sample code is as follows.

Java

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

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

public class DeleteConsumerGroupSolution {

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

```
String projectId = "{project_id}";

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

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

DeleteConsumerGroupRequest request = new DeleteConsumerGroupRequest();
request.withInstanceId("{instance_id}");
request.withGroup("{group}");
try {
    DeleteConsumerGroupResponse response = client.deleteConsumerGroup(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

    credentials = BasicCredentials(ak, sk, projectId)

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

    try:
        request = DeleteConsumerGroupRequest()
        request.instance_id = "{instance_id}"
        request.group = "{group}"
        response = client.delete_consumer_group(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

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

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

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

    client := rocketmq.NewRocketMQClient(
        rocketmq.RocketMQClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>").
            WithCredential(auth).
            Build()))

    request := &model.DeleteConsumerGroupRequest{}
    request.InstanceId = "{instance_id}"
    request.Group = "{group}"
    response, err := client.DeleteConsumerGroup(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

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

Status Codes

Status Code	Description
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.

Calling Method

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

URI

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

Table 5-39 Path Parameters

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

Request Parameters

None

Response Parameters

Status code: 200

Table 5-40 Response body parameters

Parameter	Type	Description
enabled	Boolean	Whether consumption is allowed.
broadcast	Boolean	Whether to broadcast.
brokers	Array of strings	List of associated brokers.
name	String	Consumer group name.
group_desc	String	Consumer group description.
retry_max_time	Integer	Maximum number of retries.
app_id	String	Application ID.
app_name	String	Application name.

Parameter	Type	Description
permissions	Array of strings	Permission.

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",  
    "enabled" : true,  
    "broadcast" : true,  
    "brokers" : [ "broker-0" ],  
    "permissions" : [ ],  
    "retry_max_time" : 10,  
    "app_id" : null,  
    "app_name" : null  
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

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

```
RocketMQClient client = RocketMQClient.newBuilder()
    .withCredential(auth)
    .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))
    .build();
ShowGroupRequest request = new ShowGroupRequest();
request.withInstanceId("{instance_id}");
request.withGroup("{group}");
try {
    ShowGroupResponse response = client.showGroup(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

    credentials = BasicCredentials(ak, sk, projectId)

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

    try:
        request = ShowGroupRequest()
        request.instance_id = "{instance_id}"
        request.group = "{group}"
        response = client.show_group(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
```

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

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

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

    client := rocketmq.NewRocketMQClient(
        rocketmq.RocketMQClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowGroupRequest{}
    request.InstanceId = "{instance_id}"
    request.Group = "{group}"
    response, err := client.ShowGroup(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

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

Status Codes

Status Code	Description
200	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.

Calling Method

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

URI

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

Table 5-41 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Parameter description: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: N/A Default value: N/A
instance_id	Yes	String	Parameter description: Instance ID. To obtain it, log in to the RocketMQ console and find the instance ID on the RocketMQ instance details page. Constraints: N/A Value range: N/A Default value: N/A
group	Yes	String	Parameter description: Consumer group name. Constraints: N/A Value range: N/A Default value: N/A

Request Parameters

Table 5-42 Request body parameters

Parameter	Mandatory	Type	Description
enabled	Yes	Boolean	<p>Parameter description: Whether a message can be consumed.</p> <p>Constraints: N/A</p> <p>Value range:</p> <ul style="list-style-type: none"> • true: yes • false: no <p>Default value: N/A</p>
broadcast	Yes	Boolean	<p>Parameter description: Whether to broadcast.</p> <p>Constraints: N/A</p> <p>Value range:</p> <ul style="list-style-type: none"> • true: yes • false: no <p>Default value: N/A</p>
brokers	No	Array of strings	<p>Parameter description: List of associated brokers.</p>
name	No	String	<p>Parameter description: Consumer group whose parameters are to be modified. (The consumer group name cannot be modified.)</p> <p>Constraints: N/A</p> <p>Value range: N/A</p> <p>Default value: N/A</p>

Parameter	Mandatory	Type	Description
retry_max_time	Yes	Integer	Parameter description: Maximum number of retries. Constraints: N/A Value range: 1–16 Default value: N/A

Response Parameters

Status code: 204

Table 5-43 Response body parameters

Parameter	Type	Description
job_id	String	Parameter description: ID of the specification modification task. Value range: N/A

Example Requests

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

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

Example Responses

Status code: 204

The specified consumer group is modified.

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

SDK Sample Code

The SDK sample code is as follows.

Java

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

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

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

public class UpdateConsumerGroupSolution {

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

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

        RocketMQClient client = RocketMQClient.newBuilder()
            .withCredential(auth)
            .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))
            .build();
        UpdateConsumerGroupRequest request = new UpdateConsumerGroupRequest();
        request.withInstanceId("{instance_id}");
        request.withGroup("{group}");
        UpdateConsumerGroup body = new UpdateConsumerGroup();
        body.withRetryMaxTime(16);
        body.withName("consumer-group-test");
        body.withBroadcast(true);
        body.withEnabled(true);
        request.withBody(body);
        try {
            UpdateConsumerGroupResponse response = client.updateConsumerGroup(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

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

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

    credentials = BasicCredentials(ak, sk, projectId)

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

    try:
        request = UpdateConsumerGroupRequest()
        request.instance_id = "{instance_id}"
        request.group = "{group}"
        request.body = UpdateConsumerGroup(
            retry_max_time=16,
            name="consumer-group-test",
            broadcast=True,
            enabled=True
        )
        response = client.update_consumer_group(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

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

```
package main

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

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

```
sk := os.Getenv("CLOUD_SDK_SK")
projectId := "{project_id}"

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

client := rocketmq.NewRocketMQClient(
    rocketmq.RocketMQClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).  

        WithCredential(auth).
        Build())

request := &model.UpdateConsumerGroupRequest{}
request.InstanceId = "{instance_id}"
request.Group = "{group}"
nameUpdateConsumerGroup:= "consumer-group-test"
request.Body = &model.UpdateConsumerGroup{
    RetryMaxTime: int32(16),
    Name: &nameUpdateConsumerGroup,
    Broadcast: true,
    Enabled: true,
}
response, err := client.UpdateConsumerGroup(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
```

More

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

Status Codes

Status Code	Description
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.

Calling Method

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

URI

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

Table 5-44 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Parameter description: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: N/A Default value: N/A
instance_id	Yes	String	Parameter description: Instance ID. To obtain it, log in to the RocketMQ console and find the instance ID on the RocketMQ instance details page. Constraints: N/A Value range: N/A Default value: N/A
group	Yes	String	Parameter description: Consumer group name. Constraints: N/A Value range: N/A Default value: N/A

Table 5-45 Query Parameters

Parameter	Mandatory	Type	Description
topic	No	String	<p>Parameter description: 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.</p> <p>Constraints: N/A</p> <p>Value range: N/A</p> <p>Default value: N/A</p>
limit	No	Integer	<p>Parameter description: Maximum number of topics that can be returned in a query.</p> <p>Constraints: N/A</p> <p>Value range: 1–50</p> <p>Default value: 10</p>
offset	No	Integer	<p>Parameter description: Offset where the query starts.</p> <p>Constraints: N/A</p> <p>Value range: ≥ 0</p> <p>Default value: 0</p>

Request Parameters

None

Response Parameters

Status code: 200

Table 5-46 Response body parameters

Parameter	Type	Description
topics	Array of strings	Parameter description: Topic list. This parameter is displayed only when you query the topic consumption list.
total	Integer	Parameter description: Total number of topics. This parameter is displayed only when you query the topic consumption list. Value range: N/A
lag	Long	Parameter description: Total number of accumulated messages. Value range: N/A
max_offset	Long	Parameter description: Total number of messages. Value range: N/A
consumer_offset	Long	Parameter description: Number of consumed messages. Value range: N/A
brokers	Array of Brokers objects	Parameter description: Associated brokers of topics. This parameter is displayed only when you query the topic consumption details.

Table 5-47 Brokers

Parameter	Type	Description
broker_name	String	Parameter description: Names of the associated brokers. Value range: N/A

Parameter	Type	Description
queues	Array of Queue objects	Parameter description: Queue details of the associated brokers.

Table 5-48 Queue

Parameter	Type	Description
id	Integer	Parameter description: Queue ID. Value range: N/A
lag	Long	Parameter description: Total number of accumulated messages in the queue. Value range: N/A
broker_offset	Long	Parameter description: Total number of messages in the queue. Value range: N/A
consumer_offset	Long	Parameter description: Number of consumed messages. Value range: N/A
last_message_time	Long	Parameter description: Time (UNIX, in millisecond) when the latest consumed message was stored. Value range: N/A

Example Requests

```
GET https://{endpoint}/v2/{project_id}/instances/{instance_id}/groups/{group}/topics?topic=test0001
```

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  
        } ]  
    } ]  
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

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

```
.withAk(ak)
.withSk(sk);

RocketMQClient client = RocketMQClient.newBuilder()
    .withCredential(auth)
    .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))
    .build();
ShowConsumerListOrDetailsRequest request = new ShowConsumerListOrDetailsRequest();
request.withInstanceId("{instance_id}");
request.withGroup("{group}");
try {
    ShowConsumerListOrDetailsResponse response = client.showConsumerListOrDetails(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

    credentials = BasicCredentials(ak, sk, projectId)

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

    try:
        request = ShowConsumerListOrDetailsRequest()
        request.instance_id = "{instance_id}"
        request.group = "{group}"
        response = client.show_consumer_list_or_details(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

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

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

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

    client := rocketmq.NewRocketMQClient(
        rocketmq.RocketMQClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>").
            WithCredential(auth).
            Build()))

    request := &model.ShowConsumerListOrDetailsRequest{}
    request.InstanceId = "{instance_id}"
    request.Group = "{group}"
    response, err := client.ShowConsumerListOrDetails(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

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

Status Codes

Status Code	Description
200	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.

Calling Method

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

URI

POST /v2/{engine}/{project_id}/instances/{instance_id}/groups/{group_id}/reset-message-offset

Table 5-49 Path Parameters

Parameter	Mandatory	Type	Description
engine	Yes	String	Parameter description: Engine type. Constraints: N/A Value range: <ul style="list-style-type: none">• reliability Default value: N/A
project_id	Yes	String	Parameter description: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
instance_id	Yes	String	<p>Parameter description: Instance ID. To obtain it, log in to the RocketMQ console and find the instance ID on the RocketMQ instance details page.</p> <p>Constraints: N/A</p> <p>Value range: N/A</p> <p>Default value: N/A</p>
group_id	Yes	String	<p>Parameter description: Consumer group name.</p> <p>Constraints: N/A</p> <p>Value range: N/A</p> <p>Default value: N/A</p>

Request Parameters

Table 5-50 Request body parameters

Parameter	Mandatory	Type	Description
topic	Yes	String	<p>Parameter description: Topic to be reset.</p> <p>Constraints: N/A</p> <p>Value range: N/A</p> <p>Default value: N/A</p>

Parameter	Mandatory	Type	Description
timestamp	Yes	String	Parameter description: Reset time. Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 5-51 Response body parameters

Parameter	Type	Description
queues	Array of queues objects	Parameter description: Queues to be reset.

Table 5-52 queues

Parameter	Type	Description
broker_name	String	Parameter description: Broker where the queue is located. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Type	Description
queue_id	Integer	Parameter description: Queue ID. Constraints: N/A Value range: N/A Default value: N/A
timestamp_offset	Long	Parameter description: Target offset. Constraints: N/A Value range: N/A Default value: N/A

Example Requests

Resetting consumer offset of topic_01 to a specified time point.

```
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
    } ]
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

Resetting consumer offset of topic_01 to a specified time point

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

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

public class ResetConsumeOffsetSolution {

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

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

        RocketMQClient client = RocketMQClient.newBuilder()
            .withCredential(auth)
            .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))
            .build();
        ResetConsumeOffsetRequest request = new ResetConsumeOffsetRequest();
        request.withEngine(ResetConsumeOffsetRequest.EngineEnum.fromValue("{engine}"));
        request.withInstanceId("{instance_id}");
        request.withGroupId("{group_id}");
        ResetConsumeOffsetReq body = new ResetConsumeOffsetReq();
        body.withTimestamp("1662652800000");
        body.withTopic("topic_01");
        request.withBody(body);
        try {
            ResetConsumeOffsetResponse response = client.resetConsumeOffset(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

Resetting consumer offset of topic_01 to a specified time point

```
# coding: utf-8
```

```
import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

    credentials = BasicCredentials(ak, sk, projectId)

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

    try:
        request = ResetConsumeOffsetRequest()
        request.engine = "{engine}"
        request.instance_id = "{instance_id}"
        request.group_id = "{group_id}"
        request.body = ResetConsumeOffsetReq(
            timestamp="1662652800000",
            topic="topic_01"
        )
        response = client.reset_consume_offset(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

Resetting consumer offset of topic_01 to a specified time point

```
package main

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

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

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

```
client := rocketmq.NewRocketMQClient(  
    rocketmq.RocketMQClientBuilder()  
        .WithRegion(region.ValueOf("<YOUR REGION>")).  
        .WithCredential(auth).  
        .Build())  
  
request := &model.ResetConsumeOffsetRequest{}  
request.Engine = model.GetResetConsumeOffsetRequestEngineEnum().ENGINE  
request.InstanceId = "{instance_id}"  
request.GroupId = "{group_id}"  
request.Body = &model.ResetConsumeOffsetReq{  
    Timestamp: "1662652800000",  
    Topic: "topic_01",  
}  
response, err := client.ResetConsumeOffset(request)  
if err == nil {  
    fmt.Printf("%+v\n", response)  
} else {  
    fmt.Println(err)  
}  
}
```

More

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

Status Codes

Status Code	Description
200	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.

Calling Method

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

URI

GET /v2/rocketmq/{project_id}/instances/{instance_id}/groups/{group}/clients

Table 5-53 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	<p>Parameter description: Project ID. For details, see Obtaining a Project ID.</p> <p>Constraints: N/A</p> <p>Value range: N/A</p> <p>Default value: N/A</p>
instance_id	Yes	String	<p>Parameter description: Instance ID. To obtain it, log in to the RocketMQ console and find the instance ID on the RocketMQ instance details page.</p> <p>Constraints: N/A</p> <p>Value range: N/A</p> <p>Default value: N/A</p>
group	Yes	String	<p>Parameter description: Consumer group name.</p> <p>Constraints: N/A</p> <p>Value range: N/A</p> <p>Default value: N/A</p>

Table 5-54 Query Parameters

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

Request Parameters

None

Response Parameters

Status code: 200

Table 5-55 Response body parameters

Parameter	Type	Description
group_name	String	Consumer group name.
online	Boolean	Whether the consumer group is online.
subscription_consistency	Boolean	Whether subscriptions are consistent.
total	Integer	Total number of consumers.
next_offset	Integer	Offset of the next page.
previous_offset	Integer	Offset of the previous page.
clients	Array of ClientData objects	List of consumer subscription details.

Table 5-56 ClientData

Parameter	Type	Description
language	String	Client language.
version	String	Client version.
client_id	String	Client ID.
client_addr	String	Client address.
subscriptions	Array of Subscription objects	Subscription list.

Table 5-57 Subscription

Parameter	Type	Description
topic	String	Name of the subscribed topic.
type	String	Subscription type. The options are TAG and SQL92 .
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"  
        } ]  
    } ]  
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

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

```
.build();
ShowConsumerConnectionsRequest request = new ShowConsumerConnectionsRequest();
request.withInstanceId("{instance_id}");
request.withGroup("{group}");
try {
    ShowConsumerConnectionsResponse response = client.showConsumerConnections(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

    credentials = BasicCredentials(ak, sk, projectId)

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

    try:
        request = ShowConsumerConnectionsRequest()
        request.instance_id = "{instance_id}"
        request.group = "{group}"
        response = client.show_consumer_connections(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

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

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

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

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

    client := rocketmq.NewRocketMQClient(
        rocketmq.RocketMQClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>").
            WithCredential(auth).
            Build()))

    request := &model.ShowConsumerConnectionsRequest{}
    request.InstanceId = "{instance_id}"
    request.Group = "{group}"
    response, err := client.ShowConsumerConnections(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

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

Status Codes

Status Code	Description
200	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.

Calling Method

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

URI

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

Table 5-58 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Parameter description: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: N/A Default value: N/A
instance_id	Yes	String	Parameter description: Instance ID. To obtain it, log in to the RocketMQ console and find the instance ID on the RocketMQ instance details page. Constraints: N/A Value range: N/A Default value: N/A

Table 5-59 Query Parameters

Parameter	Mandatory	Type	Description
action	No	String	<p>Parameter description: This parameter is used to delete topics in batches. If it is not set, a topic will be created.</p> <p>Constraints: N/A</p> <p>Value range:</p> <ul style="list-style-type: none"> • delete: Delete consumer groups in batches. • Do not fill: Create consumer groups in batches. <p>Default value: N/A</p>

Request Parameters

Table 5-60 Request body parameters

Parameter	Mandatory	Type	Description
name	No	String	<p>Parameter description: Topic name.</p> <p>Constraints: Enter 3 to 64 characters. Use only letters, digits, percent (%), vertical bars (), hyphens (-), and underscores (_).</p> <p>Value range: N/A</p> <p>Default value: N/A</p>
brokers	No	Array of strings	<p>Parameter description: Associated broker.</p> <p>Constraints: This parameter is mandatory only for RocketMQ 4.8.0 instances.</p>

Parameter	Mandatory	Type	Description
queue_num	No	Number	<p>Parameter description: Total number of queues.</p> <p>Constraints: N/A</p> <p>Value range: 1–50</p> <p>Default value: N/A</p>
queues	No	Array of queues objects	<p>Parameter description: Queue.</p> <p>Constraints: This parameter is mandatory only for RocketMQ 4.8.0 instances.</p>
permission	No	String	<p>Parameter description: Permission.</p> <p>Constraints: This parameter is mandatory only for RocketMQ 4.8.0 instances.</p> <p>Value range:</p> <ul style="list-style-type: none"> • pub (publish) • sub (subscribe) • all (publish + subscribe) <p>Default value: N/A</p>

Parameter	Mandatory	Type	Description
message_type	No	String	<p>Parameter description: Message type</p> <p>Constraints: This parameter is mandatory only for RocketMQ 5.x instances.</p> <p>Value range:</p> <ul style="list-style-type: none"> • NORMAL (normal messages) • FIFO (ordered messages) • DELAY (scheduled messages) • TRANSACTION (transactional messages) <p>Default value: N/A</p>
topics	No	Array of strings	<p>Topic list. This parameter is used when topics are deleted in batches.</p> <p>Parameter description: Topic list. This parameter is used when topics are deleted in batches.</p>

Table 5-61 queues

Parameter	Mandatory	Type	Description
broker	No	String	<p>Parameter description: Associated brokers.</p> <p>Constraints: N/A</p> <p>Value range: N/A</p> <p>Default value: N/A</p>

Parameter	Mandatory	Type	Description
queue_num	No	Number	Parameter description: Number of queues. Constraints: N/A Value range: 1–50 Default value: N/A

Response Parameters

Status code: 200

Table 5-62 Response body parameters

Parameter	Type	Description
id	String	Topic name. Parameter description: Topic name. Value range: N/A
job_id	String	Job ID for deleting topics. Parameter description: Job ID for deleting topics. Value range: N/A

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
  }]
}
```

- For RocketMQ 5.x instances: Creating a topic for normal messages

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

```
{  
    "name" : "topic-test",  
    "message_type" : "NORMAL"  
}
```

Example Responses

Status code: 200

A topic is created or multiple topics are deleted in batches.

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

SDK Sample Code

The SDK sample code is as follows.

Java

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

```
package com.huaweicloud.sdk.test;  
  
import com.huaweicloud.sdk.core.auth.ICredential;  
import com.huaweicloud.sdk.core.auth.BasicCredentials;  
import com.huaweicloud.sdk.core.exception.ConnectionException;  
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;  
import com.huaweicloud.sdk.core.exception.ServiceResponseException;  
import com.huaweicloud.sdk.rocketmq.v2.region.RocketMQRegion;  
import com.huaweicloud.sdk.rocketmq.v2.*;  
import com.huaweicloud.sdk.rocketmq.v2.model.*;  
  
import java.util.List;  
import java.util.ArrayList;  
  
public class CreateTopicOrBatchDeleteTopicSolution {  
  
    public static void main(String[] args) {  
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great  
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or  
        // environment variables and decrypted during use to ensure security.  
        // In this example, AK and SK are stored in environment variables for authentication. Before  
        // running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local  
        // environment  
        String ak = System.getenv("CLOUD_SDK_AK");  
        String sk = System.getenv("CLOUD_SDK_SK");  
        String projectId = "{project_id}";  
  
        ICredential auth = new BasicCredentials()  
            .withProjectId(projectId)  
            .withAk(ak)  
            .withSk(sk);  
  
        RocketMQClient client = RocketMQClient.newBuilder()  
            .withCredential(auth)  
            .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))  
            .build();  
        CreateTopicOrBatchDeleteTopicRequest request = new CreateTopicOrBatchDeleteTopicRequest();  
        request.withInstanceId("{instance_id}");  
        CreateTopicOrBatchDeleteTopicReq body = new CreateTopicOrBatchDeleteTopicReq();  
        List<CreateTopicReqQueues> listbodyQueues = new ArrayList<>();  
        listbodyQueues.add(  
            new CreateTopicReqQueues()  
                .withBroker("broker-0")
```

```
        .withQueueNum(java.math.BigDecimal.valueOf(3))
    );
body.withPermission(CreateTopicOrBatchDeleteTopicReq.PermissionEnum.fromValue("all"));
body.withName("topic-test");
body.withQueues(listbodyQueues);
request.withBody(body);
try {
    CreateTopicOrBatchDeleteTopicResponse response =
client.createTopicOrBatchDeleteTopic(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

- For RocketMQ 5.x instances: Creating a topic for normal messages

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

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

public class CreateTopicOrBatchDeleteTopicSolution {

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

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

        RocketMQClient client = RocketMQClient.newBuilder()
            .withCredential(auth)
            .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))
            .build();
        CreateTopicOrBatchDeleteTopicRequest request = new CreateTopicOrBatchDeleteTopicRequest();
        request.withInstanceId("{instance_id}");
        CreateTopicOrBatchDeleteTopicReq body = new CreateTopicOrBatchDeleteTopicReq();

        body.withMessageType(CreateTopicOrBatchDeleteTopicReq.MessageTypeEnum.fromValue("NORMAL"));
        body.withName("topic-test");
        request.withBody(body);
        try {
            CreateTopicOrBatchDeleteTopicResponse response =
client.createTopicOrBatchDeleteTopic(request);
```

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

Python

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

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

    credentials = BasicCredentials(ak, sk, projectId)

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

    try:
        request = CreateTopicOrBatchDeleteTopicRequest()
        request.instance_id = "{instance_id}"
        listQueuesbody = [
            CreateTopicReqQueues(
                broker="broker-0",
                queue_num=3
            )
        ]
        request.body = CreateTopicOrBatchDeleteTopicReq(
            permission="all",
            name="topic-test",
            queues=listQueuesbody
        )
        response = client.create_topic_or_batch_delete_topic(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

- For RocketMQ 5.x instances: Creating a topic for normal messages

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

    credentials = BasicCredentials(ak, sk, projectId)

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

    try:
        request = CreateTopicOrBatchDeleteTopicRequest()
        request.instance_id = "{instance_id}"
        request.body = CreateTopicOrBatchDeleteTopicReq(
            message_type="NORMAL",
            name="topic-test"
        )
        response = client.create_topic_or_batch_delete_topic(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

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

```
package main

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

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

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
```

```
WithSk(sk).
WithProjectId(projectId).
Build()

client := rocketmq.NewRocketMQClient(
    rocketmq.RocketMQClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.CreateTopicOrBatchDeleteTopicRequest{}
request.InstanceId = "{instance_id}"
brokerQueues:= "broker-0"
queueNumQueues:= float32(3)
var listQueuesbody = []model.CreateTopicReqQueues{
{
    Broker: &brokerQueues,
    QueueNum: &queueNumQueues,
},
}
permissionCreateTopicOrBatchDeleteTopicReq:=
model.GetCreateTopicOrBatchDeleteTopicReqPermissionEnum().ALL
nameCreateTopicOrBatchDeleteTopicReq= "topic-test"
request.Body = &model.CreateTopicOrBatchDeleteTopicReq{
    Permission: &permissionCreateTopicOrBatchDeleteTopicReq,
    Name: &nameCreateTopicOrBatchDeleteTopicReq,
    Queues: &listQueuesbody,
}
response, err := client.CreateTopicOrBatchDeleteTopic(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
}
```

- For RocketMQ 5.x instances: Creating a topic for normal messages

```
package main

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

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

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

    client := rocketmq.NewRocketMQClient(
        rocketmq.RocketMQClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())
}
```

```
request := &model.CreateTopicOrBatchDeleteTopicRequest{}
request.InstanceId = "{instance_id}"
messageTypeCreateTopicOrBatchDeleteTopicReq:=
model.GetCreateTopicOrBatchDeleteTopicReqMessageTypeEnum().NORMAL
nameCreateTopicOrBatchDeleteTopicReq:= "topic-test"
request.Body = &model.CreateTopicOrBatchDeleteTopicReq{
    MessageType: &messageTypeCreateTopicOrBatchDeleteTopicReq,
    Name: &nameCreateTopicOrBatchDeleteTopicReq,
}
response, err := client.CreateTopicOrBatchDeleteTopic(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
```

More

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

Status Codes

Status Code	Description
200	A topic is created or multiple topics are deleted in batches.

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.

Calling Method

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

URI

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

Table 5-63 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	<p>Parameter description: Project ID. For details, see Obtaining a Project ID.</p> <p>Constraints: N/A</p> <p>Value range: N/A</p> <p>Default value: N/A</p>
instance_id	Yes	String	<p>Parameter description: Instance ID. To obtain it, log in to the RocketMQ console and find the instance ID on the RocketMQ instance details page.</p> <p>Constraints: N/A</p> <p>Value range: N/A</p> <p>Default value: N/A</p>

Table 5-64 Query Parameters

Parameter	Mandatory	Type	Description
limit	No	Integer	<p>Parameter description: Number of records to query.</p> <p>Constraints: N/A</p> <p>Value range: 1–50</p> <p>Default value: N/A</p>

Parameter	Mandatory	Type	Description
offset	No	Integer	Parameter description: Offset where the query starts. Constraints: N/A Value range: ≥ 0 Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 5-65 Response body parameters

Parameter	Type	Description
total	Integer	Parameter description: Total number of topics. Value range: N/A
max	Integer	Parameter description: Maximum number of topics that can be created. Value range: N/A
remaining	Integer	Parameter description: Remaining number of topics that can be created. Value range: N/A
next_offset	Integer	Parameter description: Offset of the next page. Value range: N/A

Parameter	Type	Description
previous_offset	Integer	Parameter description: Offset of the previous page. Value range: N/A
topics	Array of Topic objects	Parameter description: Remaining number of topics that can be created.

Table 5-66 Topic

Parameter	Type	Description
name	String	Parameter description: Topic name. Value range: N/A
total_read_queue_num	Number	Parameter description: Total number of read queues. Value range: N/A
total_write_queue_num	Number	Parameter description: Total number of write queues. Value range: N/A
permission	String	Parameter description: Permission. Value range: <ul style="list-style-type: none"> • sub: subscribe permissions. • pub: publish permissions. • all: subscribe and publish permissions.
brokers	Array of brokers objects	Associated brokers.

Parameter	Type	Description
message_type	String	<p>Parameter description: Message type (available only for RocketMQ 5.x instances).</p> <p>Value range:</p> <ul style="list-style-type: none"> • NORMAL: normal messages. • FIFO: ordered messages. • DELAY: scheduled messages. • TRANSACTION: transactional messages.

Table 5-67 brokers

Parameter	Type	Description
broker_name	String	<p>Parameter description: Broker name.</p> <p>Value range: N/A</p>
read_queue_num	Number	<p>Parameter description: Number of read queues.</p> <p>Value range: N/A</p>
write_queue_num	Number	<p>Parameter description: Number of write queues.</p> <p>Value range: N/A</p>

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"
} ]
```

SDK Sample Code

The SDK sample code is as follows.

Java

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

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

public class ListRocketInstanceTopicsSolution {

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

        ICredential auth = new BasicCredentials()
```

```
.withProjectId(projectId)
.withAk(ak)
.withSk(sk);

RocketMQClient client = RocketMQClient.newBuilder()
    .withCredential(auth)
    .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))
    .build();
ListRocketInstanceTopicsRequest request = new ListRocketInstanceTopicsRequest();
request.withInstanceId("{instance_id}");
try {
    ListRocketInstanceTopicsResponse response = client.listRocketInstanceTopics(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

    credentials = BasicCredentials(ak, sk, projectId)

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

    try:
        request = ListRocketInstanceTopicsRequest()
        request.instance_id = "{instance_id}"
        response = client.list_rocket_instance_topics(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main
```

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

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

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

    client := rocketmq.NewRocketMQClient(
        rocketmq.RocketMQClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>").
            WithCredential(auth).
            Build())

    request := &model.ListRocketInstanceTopicsRequest{}
    request.InstanceId = "{instance_id}"
    response, err := client.ListRocketInstanceTopics(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

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

Status Codes

Status Code	Description
200	Query succeeded.

Error Codes

See [Error Codes](#).

5.3.3 Deleting a Topic

Function

This API is used to delete a specified topic.

Calling Method

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

URI

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

Table 5-68 Path Parameters

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

Request Parameters

None

Response Parameters

Status code: 204

Table 5-69 Response body parameters

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

Example Requests

Deleting a specified topic

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

Example Responses

Status code: 204

The specified topic is deleted.

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

SDK Sample Code

The SDK sample code is as follows.

Java

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

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

public class DeleteTopicSolution {

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

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

        RocketMQClient client = RocketMQClient.newBuilder()
            .withCredential(auth)
            .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))
            .build();
        DeleteTopicRequest request = new DeleteTopicRequest();
        request.withInstanceId("{instance_id}");
        request.withTopic("{topic}");
        try {
            DeleteTopicResponse response = client.deleteTopic(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
```

```
# In this example, AK and SK are stored in environment variables for authentication. Before running this
example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
ak = os.environ["CLOUD_SDK_AK"]
sk = os.environ["CLOUD_SDK_SK"]
projectId = "{project_id}"

credentials = BasicCredentials(ak, sk, projectId)

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

try:
    request = DeleteTopicRequest()
    request.instance_id = "{instance_id}"
    request.topic = "{topic}"
    response = client.delete_topic(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

```
package main

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

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

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

    client := rocketmq.NewRocketMQClient(
        rocketmq.RocketMQClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.DeleteTopicRequest{}
    request.InstanceId = "{instance_id}"
    request.Topic = "{topic}"
    response, err := client.DeleteTopic(request)
    if err == nil {
        fmt.Printf("%#v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

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

Status Codes

Status Code	Description
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.

Calling Method

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

URI

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

Table 5-70 Path Parameters

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

Parameter	Mandatory	Type	Description
instance_id	Yes	String	<p>Parameter description: Instance ID. To obtain it, log in to the RocketMQ console and find the instance ID on the RocketMQ instance details page.</p> <p>Constraints: N/A</p> <p>Value range: N/A</p> <p>Default value: N/A</p>
topic	Yes	String	<p>Parameter description: Topic name.</p> <p>Constraints: N/A</p> <p>Value range: N/A</p> <p>Default value: N/A</p>

Request Parameters

None

Response Parameters

Status code: 200

Table 5-71 Response body parameters

Parameter	Type	Description
name	String	<p>Parameter description: Topic name.</p> <p>Value range: N/A</p>
total_read_queue_num	Number	<p>Parameter description: Total number of read queues.</p> <p>Value range: N/A</p>

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

Table 5-72 brokers

Parameter	Type	Description
broker_name	String	Parameter description: Broker name. Value range: N/A
read_queue_num	Number	Parameter description: Number of read queues. Value range: N/A

Parameter	Type	Description
write_queue_num	Number	Parameter description: Number of write queues. Value range: 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.

```
{
    "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"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

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

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

public class ShowOneTopicSolution {

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

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

RocketMQClient client = RocketMQClient.newBuilder()
    .withCredential(auth)
    .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))
    .build();
ShowOneTopicRequest request = new ShowOneTopicRequest();
request.withInstanceId("{instance_id}");
request.withTopic("{topic}");
try {
    ShowOneTopicResponse response = client.showOneTopic(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

    credentials = BasicCredentials(ak, sk, projectId)

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

    try:
        request = ShowOneTopicRequest()
        request.instance_id = "{instance_id}"
        request.topic = "{topic}"
        response = client.show_one_topic(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

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

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

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

    client := rocketmq.NewRocketMQClient(
        rocketmq.RocketMQClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>").
            WithCredential(auth).
            Build())

    request := &model.ShowOneTopicRequest{}
    request.InstanceId = "{instance_id}"
    request.Topic = "{topic}"
    response, err := client.ShowOneTopic(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

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

Status Codes

Status Code	Description
200	Topic queried successfully.

Error Codes

See [Error Codes](#).

5.3.5 Modifying a Topic

Function

This API is used to modify a topic.

Calling Method

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

URI

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

Table 5-73 Path Parameters

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

Request Parameters

Table 5-74 Request body parameters

Parameter	Mandatory	Type	Description
read_queue_num	No	Number	Definition: Total number of read queues. Constraints: N/A Range: N/A Default Value: N/A

Parameter	Mandatory	Type	Description
write_queue_num	No	Number	<p>Definition: Total number of write queues.</p> <p>Constraints: N/A</p> <p>Range: N/A</p> <p>Default Value: N/A</p>
permission	No	String	<p>Definition: Permission.</p> <p>Constraints: N/A</p> <p>Range: N/A</p> <p>Default Value: N/A</p>
queues	No	Array of UpdateTopicQueueEntity objects	<p>Definition: Queue.</p> <p>Constraints: N/A</p> <p>Range: N/A</p> <p>Default Value: N/A</p>
topic_desc	No	String	<p>Definition: Topic description.</p> <p>Constraints: N/A</p> <p>Range: N/A</p> <p>Default Value: N/A</p>

Table 5-75 UpdateTopicQueueEntity

Parameter	Mandatory	Type	Description
broker	No	String	Definition: Broker name. Constraints: N/A Range: N/A Default Value: N/A
read_queue_num	No	Number	Definition: Number of read queues. Constraints: N/A Range: N/A Default Value: N/A
write_queue_num	No	Number	Definition: Number of write queues. Constraints: N/A Range: N/A Default Value: N/A

Response Parameters

Status code: 204

Table 5-76 Response body parameters

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

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}

{
  "read_queue_num" : 3,
  "write_queue_num" : 3,
  "permission" : "all"
}
```

Example Responses

Status code: 204

The topic is modified.

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

SDK Sample Code

The SDK sample code is as follows.

Java

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

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

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

public class UpdateTopicSolution {

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

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

        RocketMQClient client = RocketMQClient.newBuilder()
            .withCredential(auth)
            .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))
            .build();
        UpdateTopicRequest request = new UpdateTopicRequest();
        request.withInstanceId("{instance_id}");
        request.withTopic("{topic}");
        UpdateTopicReq body = new UpdateTopicReq();
        body.withPermission(UpdateTopicReq.PermissionEnum.fromValue("all"));
        body.withWriteQueueNum(java.math.BigDecimal.valueOf(3));
        body.withReadQueueNum(java.math.BigDecimal.valueOf(3));
    }
}
```

```
request.withBody(body);
try {
    UpdateTopicResponse response = client.updateTopic(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

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

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

    credentials = BasicCredentials(ak, sk, projectId)

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

    try:
        request = UpdateTopicRequest()
        request.instance_id = "{instance_id}"
        request.topic = "{topic}"
        request.body = UpdateTopicReq(
            permission="all",
            write_queue_num=3,
            read_queue_num=3
        )
        response = client.update_topic(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

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

```
package main

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

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

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

    client := rocketmq.NewRocketMQClient(
        rocketmq.RocketMQClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UpdateTopicRequest{}
    request.InstanceId = "{instance_id}"
    request.Topic = "{topic}"
    permissionUpdateTopicReq:= model.GetUpdateTopicReqPermissionEnum().ALL
    writeQueueNumUpdateTopicReq:= float32(3)
    readQueueNumUpdateTopicReq:= float32(3)
    request.Body = &model.UpdateTopicReq{
        Permission: &permissionUpdateTopicReq,
        WriteQueueNum: &writeQueueNumUpdateTopicReq,
        ReadQueueNum: &readQueueNumUpdateTopicReq,
    }
    response, err := client.UpdateTopic(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

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

Status Codes

Status Code	Description
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.

Calling Method

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

URI

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

Table 5-77 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Parameter description: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: N/A Default value: N/A
instance_id	Yes	String	Parameter description: Instance ID. To obtain it, log in to the RocketMQ console and find the instance ID on the RocketMQ instance details page. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
topic	Yes	String	Parameter description: Topic name. Constraints: N/A Value range: N/A Default value: N/A

Table 5-78 Query Parameters

Parameter	Mandatory	Type	Description
limit	No	Integer	Parameter description: Maximum number of records returned in the current query. Constraints: N/A Value range: 1–50 Default value: 10
offset	No	Integer	Parameter description: Offset where the query starts. Constraints: N/A Value range: ≥ 0 Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 5-79 Response body parameters

Parameter	Type	Description
groups	Array of strings	Parameter description: 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" ]  
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

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

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

public class ListConsumerGroupOfTopicSolution {

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

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

        RocketMQClient client = RocketMQClient.newBuilder()
            .withCredential(auth)
            .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))
            .build();
    }
}
```

```
ListConsumerGroupOfTopicRequest request = new ListConsumerGroupOfTopicRequest();
request.withInstanceId("{instance_id}");
request.withTopic("{topic}");
try {
    ListConsumerGroupOfTopicResponse response = client.listConsumerGroupOfTopic(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

    credentials = BasicCredentials(ak, sk, projectId)

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

    try:
        request = ListConsumerGroupOfTopicRequest()
        request.instance_id = "{instance_id}"
        request.topic = "{topic}"
        response = client.list_consumer_group_of_topic(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

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

```
)  
  
func main() {  
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    // variables and decrypted during use to ensure security.  
    // In this example, AK and SK are stored in environment variables for authentication. Before running this  
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak := os.Getenv("CLOUD_SDK_AK")  
    sk := os.Getenv("CLOUD_SDK_SK")  
    projectId := "{project_id}"  
  
    auth := basic.NewCredentialsBuilder().  
        WithAk(ak).  
        WithSk(sk).  
        WithProjectId(projectId).  
        Build()  
  
    client := rocketmq.NewRocketMQClient(  
        rocketmq.RocketMQClientBuilder().  
            WithRegion(region.ValueOf("<YOUR REGION>")).  
            WithCredential(auth).  
            Build())  
  
    request := &model.ListConsumerGroupOfTopicRequest{}  
    request.InstanceId = "{instance_id}"  
    request.Topic = "[topic]"  
    response, err := client.ListConsumerGroupOfTopic(request)  
    if err == nil {  
        fmt.Printf("%+v\n", response)  
    } else {  
        fmt.Println(err)  
    }  
}
```

More

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

Status Codes

Status Code	Description
200	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.

Calling Method

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

URI

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

Table 5-80 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Parameter description: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: N/A Default value: N/A
instance_id	Yes	String	Parameter description: Instance ID. To obtain it, log in to the RocketMQ console and find the instance ID on the RocketMQ instance details page. Constraints: N/A Value range: N/A Default value: N/A
topic	Yes	String	Parameter description: Topic name. Constraints: N/A Value range: N/A Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 5-81 Response body parameters

Parameter	Type	Description
max_offset	Integer	Parameter description: Maximum offset. Value range: N/A
min_offset	Integer	Parameter description: Minimum offset. Value range: N/A
brokers	Array of brokers objects	Parameter description: Brokers.

Table 5-82 brokers

Parameter	Type	Description
queues	Array of queues objects	Parameter description: Queue list.
broker_name	String	Parameter description: Broker name. Value range: N/A

Table 5-83 queues

Parameter	Type	Description
id	Integer	Parameter description: Queue ID. Value range: N/A

Parameter	Type	Description
min_offset	Integer	Parameter description: Minimum offset. Value range: N/A
max_offset	Integer	Parameter description: Maximum offset. Value range: N/A
last_message_time	Long	Parameter description: Time of the last message. Value range: 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"  
    ]  
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

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

```
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.rocketmq.v2.region.RocketMQRegion;
import com.huaweicloud.sdk.rocketmq.v2.*;
import com.huaweicloud.sdk.rocketmq.v2.model.*;

public class ShowTopicStatusSolution {

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

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

        RocketMQClient client = RocketMQClient.newBuilder()
            .withCredential(auth)
            .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowTopicStatusRequest request = new ShowTopicStatusRequest();
        request.withInstanceId("{instance_id}");
        request.withTopic("{topic}");
        try {
            ShowTopicStatusResponse response = client.showTopicStatus(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

    credentials = BasicCredentials(ak, sk, projectId)
```

```
client = RocketMQClient.new_builder() \
    .with_credentials(credentials) \
    .with_region(RocketMQRegion.value_of("<YOUR REGION>")) \
    .build()

try:
    request = ShowTopicStatusRequest()
    request.instance_id = "{instance_id}"
    request.topic = "{topic}"
    response = client.show_topic_status(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

```
package main

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

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

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

    client := rocketmq.NewRocketMQClient(
        rocketmq.RocketMQClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowTopicStatusRequest{}
    request.InstanceId = "{instance_id}"
    request.Topic = "{topic}"
    response, err := client.ShowTopicStatus(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

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

Status Codes

Status Code	Description
200	Successful

Error Codes

See [Error Codes](#).

5.4 Message Management

5.4.1 Querying Messages

Function

This API is used to query messages.

Calling Method

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

URI

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

Table 5-84 Path Parameters

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

Parameter	Mandatory	Type	Description
project_id	Yes	String	<p>Parameter description: Project ID. For details, see Obtaining a Project ID.</p> <p>Constraints: N/A</p> <p>Value range: N/A</p> <p>Default value: N/A</p>
instance_id	Yes	String	<p>Parameter description: Instance ID. To obtain it, log in to the RocketMQ console and find the instance ID on the RocketMQ instance details page.</p> <p>Constraints: N/A</p> <p>Value range: N/A</p> <p>Default value: N/A</p>

Table 5-85 Query Parameters

Parameter	Mandatory	Type	Description
topic	Yes	String	<p>Parameter description: Topic name.</p> <p>Constraints: N/A</p> <p>Value range: N/A</p> <p>Default value: N/A</p>

Parameter	Mandatory	Type	Description
queue	No	String	<p>Parameter description: Queue.</p> <p>Constraints: N/A</p> <p>Value range: N/A</p> <p>Default value: N/A</p>
limit	No	String	<p>Parameter description: Number of records to query.</p> <p>Constraints: N/A</p> <p>Value range: N/A</p> <p>Default value: N/A</p>
offset	No	String	<p>Parameter description: Offset where the query starts.</p> <p>Constraints: N/A</p> <p>Value range: ≥ 0</p> <p>Default value: N/A</p>
key	No	String	<p>Parameter description: Key of a message.</p> <p>Constraints: N/A</p> <p>Value range: N/A</p> <p>Default value: N/A</p>

Parameter	Mandatory	Type	Description
start_time	No	String	<p>Parameter description: Start time.</p> <p>Constraints: This parameter is mandatory when msg_id is not used for query.</p> <p>Value range: N/A</p> <p>Default value: N/A</p>
end_time	No	String	<p>Parameter description: End time.</p> <p>Constraints: This parameter is mandatory when msg_id is not used for query.</p> <p>Value range: N/A</p> <p>Default value: N/A</p>
msg_id	No	String	<p>Parameter description: Message ID.</p> <p>Constraints: N/A</p> <p>Value range: N/A</p> <p>Default value: N/A</p>

Request Parameters

None

Response Parameters

Status code: 200

Table 5-86 Response body parameters

Parameter	Type	Description
messages	Array of Message objects	Parameter description: Message list.
total	Number	Parameter description: Total number of messages. Value range: N/A

Table 5-87 Message

Parameter	Type	Description
msg_id	String	Parameter description: Message ID. Value range: N/A
instance_id	String	Parameter description: Instance ID. Value range: N/A
topic	String	Parameter description: Topic name. Value range: N/A
store_timestamp	Number	Parameter description: Time when the message is stored. Value range: N/A
born_timestamp	Number	Parameter description: Time when the message is generated. Value range: N/A
reconsume_times	Integer	Parameter description: Number of retry times. Value range: N/A

Parameter	Type	Description
body	String	Parameter description: Message body. Value range: N/A
body_crc	Number	Parameter description: Message body checksum. Value range: N/A
store_size	Number	Parameter description: Storage size. Value range: N/A
property_list	Array of property_list objects	Parameter description: Message attribute list.
born_host	String	Parameter description: IP address of the host that generates the message. Value range: N/A
store_host	String	Parameter description: IP address of the host that stores the message. Value range: N/A
queue_id	Integer	Parameter description: Queue ID. Value range: N/A
queue_offset	Integer	Parameter description: Offset in the queue. Value range: N/A

Table 5-88 property_list

Parameter	Type	Description
name	String	Parameter description: Attribute name. Value range: N/A
value	String	Parameter description: Attribute value. Value range: N/A

Example Requests

Querying messages

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

Example Responses

Status code: 200

Messages queried successfully.

```
{
  "messages": [
    {
      "msg_id": "C0A807C900002774000000000000000030",
      "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
  }
```

SDK Sample Code

The SDK sample code is as follows.

Java

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

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

public class ListMessagesSolution {

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

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

        RocketMQClient client = RocketMQClient.newBuilder()
            .withCredential(auth)
            .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))
            .build();
        ListMessagesRequest request = new ListMessagesRequest();
        request.withEngine(ListMessagesRequest.EngineEnum.fromValue("{engine}"));
        request.withInstanceId("{instance_id}");
        try {
            ListMessagesResponse response = client.listMessages(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *
```

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

    credentials = BasicCredentials(ak, sk, projectId)

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

    try:
        request = ListMessagesRequest()
        request.engine = "{engine}"
        request.instance_id = "{instance_id}"
        response = client.list_messages(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

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

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

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

    client := rocketmq.NewRocketMQClient(
        rocketmq.RocketMQClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListMessagesRequest{}
    request.Engine = model.GetListMessagesRequestEngineEnum().ENGINE
    request.InstanceId = "{instance_id}"
    response, err := client.ListMessages(request)
    if err == nil {
```

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

More

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

Status Codes

Status Code	Description
200	Messages queried successfully.

Error Codes

See [Error Codes](#).

5.4.2 Sending a Message

Function

This API is used to send a message.

Calling Method

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

URI

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

Table 5-89 Path Parameters

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

Parameter	Mandatory	Type	Description
project_id	Yes	String	<p>Definition: Project ID. For details, see Obtaining a Project ID.</p> <p>Constraints: N/A</p> <p>Range: N/A</p> <p>Default Value: N/A</p>
instance_id	Yes	String	<p>Definition: Instance ID. To obtain it, log in to the RocketMQ console and find the instance ID on the RocketMQ instance details page.</p> <p>Constraints: N/A</p> <p>Range: N/A</p> <p>Default Value: N/A</p>

Request Parameters

Table 5-90 Request body parameters

Parameter	Mandatory	Type	Description
topic	No	String	<p>Definition: Topic name.</p> <p>Range: N/A</p>
body	No	String	<p>Definition: Message content.</p> <p>Range: N/A</p>

Parameter	Mandatory	Type	Description
property_list	No	Array of SendMessageProperties objects	Definition: Feature list. Range: N/A
msg_id	No	String	Definition: Message ID. Range: N/A
queue_id	No	Number	Definition: Queue ID. Range: N/A
queue_offset	No	Number	Definition: Queue offset. Range: N/A
broker_name	No	String	Definition: Broker name. Range: N/A

Table 5-91 SendMessageProperties

Parameter	Mandatory	Type	Description
name	No	String	Definition: Feature name. Range: N/A
value	No	String	Definition: Feature value. Range: N/A

Response Parameters

Status code: 200

Table 5-92 Response body parameters

Parameter	Type	Description
topic	String	Definition: Topic name. Range: N/A
body	String	Definition: Message content. Range: N/A
property_list	Array of SendMessageProperties objects	Definition: Feature list. Range: N/A
msg_id	String	Definition: Message ID. Range: N/A
queue_id	Number	Definition: Queue ID. Range: N/A
queue_offset	Number	Definition: Queue offset. Range: N/A
broker_name	String	Definition: Broker name. Range: N/A

Table 5-93 SendMessageProperties

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

Example Requests

Sending a message

POST https://{endpoint}/v2/{engine}/{project_id}/instances/{instance_id}/messages?topic={topic}

Example Responses

Status code: 200

Successful

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

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;  
  
import com.huaweicloud.sdk.core.auth.ICredential;  
import com.huaweicloud.sdk.core.auth.BasicCredentials;  
import com.huaweicloud.sdk.core.exception.ConnectionException;  
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;  
import com.huaweicloud.sdk.core.exception.ServiceResponseException;  
import com.huaweicloud.sdk.rocketmq.v2.region.RocketMQRegion;  
import com.huaweicloud.sdk.rocketmq.v2.*;  
import com.huaweicloud.sdk.rocketmq.v2.model.*;  
  
public class SendMessageSolution {  
  
    public static void main(String[] args) {  
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great  
    }
```

security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.

```
// In this example, AK and SK are stored in environment variables for authentication. Before running
this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
String ak = System.getenv("CLOUD_SDK_AK");
String sk = System.getenv("CLOUD_SDK_SK");
String projectId = "{project_id}";

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

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

SendMessageRequest request = new SendMessageRequest();
request.withEngine("{engine}");
request.withInstanceId("{instance_id}");
SendMessageResp body = new SendMessageResp();
request.withBody(body);
try {
    SendMessageResponse response = client.sendMessage(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

    credentials = BasicCredentials(ak, sk, projectId)

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

    try:
        request = SendMessageRequest()
        request.engine = "{engine}"
```

```
request.instance_id = "{instance_id}"
request.body = SendMessageResp(
)
response = client.send_message(request)
print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

```
package main

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

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

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

    client := rocketmq.NewRocketMQClient(
        rocketmq.RocketMQClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).  

            WithCredential(auth).
            Build())
}

request := &model.SendMessageRequest{}
request.Engine = "{engine}"
request.InstanceId = "{instance_id}"
request.Body = &model.SendMessageResp{
}
response, err := client.SendMessage(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
```

More

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

Status Codes

Status Code	Description
200	Successful

Error Codes

See [Error Codes](#).

5.4.3 Querying the Message Trace

Function

This API is used to query the message trace.

Calling Method

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

URI

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

Table 5-94 Path Parameters

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

Table 5-95 Query Parameters

Parameter	Mandatory	Type	Description
msg_id	Yes	String	Message ID.
limit	No	Integer	Number of records to be queried.
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 5-96 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 trace objects	Message trace list.

Table 5-97 trace

Parameter	Type	Description
success	Boolean	Whether the request is successful.
trace_type	String	Trace type.
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">● 0: Successful● 1: Timeout● 2: Exception● 3: Null● 5: Failed
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	Message type.
transaction_state	String	Transaction status.
transaction_id	String	Transaction ID.
from_transaction_check	Boolean	Whether the response is a transaction check response.

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": "C0A8011700002774000000000000BE12",  
        "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": null,  
        "transaction_id": null,  
        "from_transaction_check": false  
    } ]  
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

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

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

public class ListMessageTraceSolution {

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

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

        RocketMQClient client = RocketMQClient.newBuilder()
            .withCredential(auth)
            .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))
            .build();
        ListMessageTraceRequest request = new ListMessageTraceRequest();
        request.withEngine(ListMessageTraceRequest.EngineEnum.fromValue("{engine}"));
        request.withInstanceId("{instance_id}");
        try {
            ListMessageTraceResponse response = client.listMessageTrace(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *
```

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

    credentials = BasicCredentials(ak, sk, projectId)

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

    try:
        request = ListMessageTraceRequest()
        request.engine = "{engine}"
        request.instance_id = "{instance_id}"
        response = client.list_message_trace(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

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

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

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

    client := rocketmq.NewRocketMQClient(
        rocketmq.RocketMQClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListMessageTraceRequest{}
    request.Engine = model.GetListMessageTraceRequestEngineEnum().ENGINE
    request.InstanceId = "{instance_id}"
    response, err := client.ListMessageTrace(request)
    if err == nil {
```

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

More

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

Status Codes

Status Code	Description
200	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.

Calling Method

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

URI

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

Table 5-98 Path Parameters

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

Request Parameters

Table 5-99 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 5-100 Response body parameters

Parameter	Type	Description
[items]	Array of Message objects	Message.

Table 5-101 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 property_list objects	Message attribute list.
born_host	String	IP address of the host that generates the message.

Parameter	Type	Description
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 5-102 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" : [ "COA8011700002774000000000013B19D", "COA8011700002774000000000013B30F" ],
    "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" : "COA8005B00002775000000000000EBAE"
    },
    "msg_id" : "COA8005B00002775000000000000133A2",
    "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
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

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

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

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

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

public class ExportDlqMessageSolution {

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

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

        RocketMQClient client = RocketMQClient.newBuilder()
            .withCredential(auth)
            .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))
            .build();
        ExportDlqMessageRequest request = new ExportDlqMessageRequest();
        request.withInstanceId("{instance_id}");
        ExportDlqMessageReq body = new ExportDlqMessageReq();
        List<String> listbodyUniqKeyList = new ArrayList<>();
        listbodyUniqKeyList.add("7F000001001C18B4AAC26B8AED170010");
        listbodyUniqKeyList.add("7F000001001C18B4AAC26B8AEE030015");
        List<String> listbodyMsgIdList = new ArrayList<>();
        listbodyMsgIdList.add("COA80117000027740000000000013B19D");
        listbodyMsgIdList.add("COA80117000027740000000000013B30F");
        body.withUniqKeyList(listbodyUniqKeyList);
        body.withMsgIdList(listbodyMsgIdList);
        body.withTopic("%DLQ%group1");
        request.withBody(body);
        try {
            ExportDlqMessageResponse response = client.exportDlqMessage(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
        }
    }
}
```

```
        System.out.println(e.getErrorCode());
        System.out.println(e.getErrorMsg());
    }
}
```

Python

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

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

    credentials = BasicCredentials(ak, sk, projectId)

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

    try:
        request = ExportDlqMessageRequest()
        request.instance_id = "{instance_id}"
        listUniqKeyListbody = [
            "7F000001001C18B4AAC26B8AED170010",
            "7F000001001C18B4AAC26B8AEE030015"
        ]
        listMsgIdListbody = [
            "COA801170002774000000000013B19D",
            "COA801170002774000000000013B30F"
        ]
        request.body = ExportDlqMessageReq(
            uniq_key_list=listUniqKeyListbody,
            msg_id_list=listMsgIdListbody,
            topic="%DLQ%group1"
        )
        response = client.export_dlq_message(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

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

```
package main
```

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

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

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

    client := rocketmq.NewRocketMQClient(
        rocketmq.RocketMQClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>").
            WithCredential(auth).
            Build()))

    request := &model.ExportDlqMessageRequest{}
    request.InstanceId = "{instance_id}"
    var listUniqKeyListbody = []string{
        "7F000001001C18B4AAC26B8AED170010",
        "7F000001001C18B4AAC26B8AEE030015",
    }
    var listMsgIdListbody = []string{
        "COA8011700002774000000000013B19D",
        "COA8011700002774000000000013B30F",
    }
    topicExportDlqMessageReq:= "%DLQ%group1"
    request.Body = &model.ExportDlqMessageReq{
        UniqKeyList: &listUniqKeyListbody,
        MsgIdList: &listMsgIdListbody,
        Topic: &topicExportDlqMessageReq,
    }
    response, err := client.ExportDlqMessage(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

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

Status Codes

Status Code	Description
200	Dead letter messages exported successfully.

Error Codes

See [Error Codes](#).

5.4.5 Resending Dead Letter Messages

Function

Resending dead letter messages

Calling Method

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

URI

POST /v2/{engine}/{project_id}/instances/{instance_id}/messages/deadletter-resend

Table 5-103 Path Parameters

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

Request Parameters

Table 5-104 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 5-105 Response body parameters

Parameter	Type	Description
resend_results	Array of resend_results objects	Result of resending a dead letter message.

Table 5-106 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" : "C0A8149E0000277600000000000B6835",
        "error_code" : "DMS.00000000",
        "error_message" : "Success."
    } ]
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

Resending dead letter messages

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

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

```
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.rocketmq.v2.region.RocketMQRegion;
import com.huaweicloud.sdk.rocketmq.v2.*;
import com.huaweicloud.sdk.rocketmq.v2.model.*;

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

public class SendDlqMessageSolution {

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

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

        RocketMQClient client = RocketMQClient.newBuilder()
            .withCredential(auth)
            .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))
            .build();
        SendDlqMessageRequest request = new SendDlqMessageRequest();
        request.withEngine(SendDlqMessageRequest.EngineEnum.fromValue("{engine}"));
        request.withInstanceId("{instance_id}");
        DeadletterResendReq body = new DeadletterResendReq();
        List<String> listbodyMsgIdList = new ArrayList<>();
        listbodyMsgIdList.add("id1");
        body.withMsgIdList(listbodyMsgIdList);
        body.withTopic("%DLQ%group1");
        request.withBody(body);
        try {
            SendDlqMessageResponse response = client.sendDlqMessage(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatus());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

Resending dead letter messages

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.

```
# In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
ak = os.environ["CLOUD_SDK_AK"]
sk = os.environ["CLOUD_SDK_SK"]
projectId = "{project_id}"

credentials = BasicCredentials(ak, sk, projectId)

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

try:
    request = SendDlqMessageRequest()
    request.engine = "{engine}"
    request.instance_id = "{instance_id}"
    listMsgIdListbody = [
        "id1"
    ]
    request.body = DeadletterResendReq(
        msg_id_list=listMsgIdListbody,
        topic="%DLQ%group1"
    )
    response = client.send_dlq_message(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

Resending dead letter messages

```
package main

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

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

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

    client := rocketmq.NewRocketMQClient(
        rocketmq.RocketMQClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())
```

```
request := &model.SendDlqMessageRequest{}
request.Engine = model.GetSendDlqMessageRequestEngineEnum().ENGINE
request.InstanceId = "{instance_id}"
var listMsgIdListbody = []string{
    "id1",
}
topicDeadletterResendReq:= "%DLQ%group1"
request.Body = &model.DeadletterResendReq{
    MsgIdList: &listMsgIdListbody,
    Topic: &topicDeadletterResendReq,
}
response, err := client.SendDlqMessage(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
```

More

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

Status Codes

Status Code	Description
200	Dead letter messages resent.

Error Codes

See [Error Codes](#).

5.4.6 Verifying Consumption

Function

This API is used to verify consumption.

Calling Method

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

URI

POST /v2/{engine}/{project_id}/instances/{instance_id}/messages/resend

Table 5-107 Path Parameters

Parameter	Mandatory	Type	Description
engine	Yes	String	Message engine.

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

Request Parameters

Table 5-108 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 5-109 Response body parameters

Parameter	Type	Description
resend_results	Array of resend_results objects	Consumption verification result.

Table 5-110 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" : "C0A8149E0000277600000000000B6835",
        "error_code" : "DMS.00000000",
        "error_message" : "Success."
    } ]
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

Verifying consumption

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

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

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

public class ValidateConsumedMessageSolution {

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

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

        RocketMQClient client = RocketMQClient.newBuilder()
            .withCredential(auth)
            .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))
            .build();
        ValidateConsumedMessageRequest request = new ValidateConsumedMessageRequest();
```

```
request.withEngine(ValidateConsumedMessageRequest.EngineEnum.fromValue("{engine}"));
request.withInstanceId("{instance_id}");
ResendReq body = new ResendReq();
List<String> listbodyMsgIdList = new ArrayList<>();
listbodyMsgIdList.add("id1");
body.withMsgIdList(listbodyMsgIdList);
body.withClientId("192.168.0.1");
body.withGroup("GID_test");
request.withBody(body);
try {
    ValidateConsumedMessageResponse response = client.validateConsumedMessage(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

Verifying consumption

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

    credentials = BasicCredentials(ak, sk, projectId)

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

    try:
        request = ValidateConsumedMessageRequest()
        request.engine = "{engine}"
        request.instance_id = "{instance_id}"
        listMsgIdListbody = [
            "id1"
        ]
        request.body = ResendReq(
            msg_id_list=listMsgIdListbody,
            client_id="192.168.0.1",
            group="GID_test"
        )
        response = client.validate_consumed_message(request)
        print(response)
    
```

```
except exceptions.ClientRequestException as e:  
    print(e.status_code)  
    print(e.request_id)  
    print(e.error_code)  
    print(e.error_msg)
```

Go

Verifying consumption

```
package main  
  
import (  
    "fmt"  
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"  
    rocketmq "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/rocketmq/v2"  
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/rocketmq/v2/model"  
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/rocketmq/v2/region"  
)  
  
func main() {  
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    // variables and decrypted during use to ensure security.  
    // In this example, AK and SK are stored in environment variables for authentication. Before running this  
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak := os.Getenv("CLOUD_SDK_AK")  
    sk := os.Getenv("CLOUD_SDK_SK")  
    projectId := "{project_id}"  
  
    auth := basic.NewCredentialsBuilder().  
        WithAk(ak).  
        WithSk(sk).  
        WithProjectId(projectId).  
        Build()  
  
    client := rocketmq.NewRocketMQClient(  
        rocketmq.RocketMQClientBuilder().  
            WithRegion(region.ValueOf("<YOUR REGION>")).  
            WithCredential(auth).  
            Build())  
  
    request := &model.ValidateConsumedMessageRequest{}  
    request.Engine = model.GetValidateConsumedMessageRequestEngineEnum().ENGINE  
    request.InstanceId = "{instance_id}"  
    var listMsgIdListbody = []string{  
        "id1",  
    }  
    request.Body = &model.ResendReq{  
        MsgIdList: &listMsgIdListbody,  
        ClientId: "192.168.0.1",  
        Group: "GID_test",  
    }  
    response, err := client.ValidateConsumedMessage(request)  
    if err == nil {  
        fmt.Printf("%+v\n", response)  
    } else {  
        fmt.Println(err)  
    }  
}
```

More

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

Status Codes

Status Code	Description
200	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.

Calling Method

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

URI

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

Table 5-111 Path Parameters

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

Parameter	Mandatory	Type	Description
instance_id	Yes	String	<p>Parameter description: Instance ID. To obtain it, log in to the RocketMQ console and find the instance ID on the RocketMQ instance details page.</p> <p>Constraints: N/A</p> <p>Value range: N/A</p> <p>Default value: N/A</p>

Request Parameters

Table 5-112 Request body parameters

Parameter	Mandatory	Type	Description
access_key	No	String	<p>Parameter description: Username.</p> <p>Constraints: Starts with a letter, consists of 7 to 64 characters, and contains only letters, digits, hyphens (-), and underscores (_).</p> <p>Value range: N/A</p> <p>Default value: N/A</p>

Parameter	Mandatory	Type	Description
secret_key	No	String	<p>Parameter description: Secret key.</p> <p>Constraints: 8 to 32 characters. Contain at least three of the following character types:</p> <ul style="list-style-type: none"> • Uppercase letters • Lowercase letters • Digits • Special characters `~!@#\$%^&*()_-+=\ []{}:;\"<>/?` <p>Cannot be the username or the username spelled backwards.</p> <p>Value range: N/A</p> <p>Default value: N/A</p>
white_remote_address	No	String	<p>Parameter description: IP address whitelist.</p> <p>Constraints: N/A</p> <p>Value range: N/A</p> <p>Default value: N/A</p>
admin	No	Boolean	<p>Parameter description: Whether the user is an administrator.</p> <p>Constraints: N/A</p> <p>Value range:</p> <ul style="list-style-type: none"> • true: yes • false: no <p>Default value: N/A</p>

Parameter	Mandatory	Type	Description
default_topic_perm	No	String	<p>Parameter description: Default topic permissions.</p> <p>Constraints: N/A</p> <p>Value range:</p> <ul style="list-style-type: none"> • PUB: publish permissions. • SUB: subscribe permissions. • PUB SUB: subscribe and publish permissions. • DENY: no permission. <p>Default value: N/A</p>
default_group_perm	No	String	<p>Parameter description: Default consumer group permissions.</p> <p>Constraints: N/A</p> <p>Value range:</p> <ul style="list-style-type: none"> • SUB: subscribe permissions. • DENY: no permission. <p>Default value: N/A</p>
topic_perms	No	Array of topic_perms objects	<p>Parameter description: Special topic permissions.</p> <p>Constraints: N/A</p> <p>Value range: N/A</p> <p>Default value: N/A</p>

Parameter	Mandatory	Type	Description
group_perms	No	Array of group_perms objects	<p>Parameter description: Special consumer group permissions.</p> <p>Constraints: N/A</p> <p>Value range: N/A</p> <p>Default value: N/A</p>

Table 5-113 topic_perms

Parameter	Mandatory	Type	Description
name	No	String	<p>Parameter description: Topic name.</p> <p>Constraints: N/A</p> <p>Value range: N/A</p> <p>Default value: N/A</p>
perm	No	String	<p>Parameter description: Topic permission.</p> <p>Constraints: N/A</p> <p>Value range:</p> <ul style="list-style-type: none"> • PUB: publish permissions. • SUB: subscribe permissions. • PUB SUB: subscribe and publish permissions. • DENY: no permission. <p>Default value: N/A</p>

Table 5-114 group_perms

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

Response Parameters

Status code: 200

Table 5-115 Response body parameters

Parameter	Type	Description
access_key	String	Parameter description: Username. Value range: N/A
secret_key	String	Parameter description: Secret key. Value range: N/A
white_remote_address	String	Parameter description: IP address whitelist. Value range: N/A

Parameter	Type	Description
admin	Boolean	<p>Parameter description: Whether the user is an administrator.</p> <p>Value range:</p> <ul style="list-style-type: none"> • true: yes • false: no
default_topic_perm	String	<p>Parameter description: Default topic permissions.</p> <p>Value range:</p> <ul style="list-style-type: none"> • PUB: publish permissions. • SUB: subscribe permissions. • PUB SUB: subscribe and publish permissions. • DENY: no permission.
default_group_perm	String	<p>Parameter description: Default consumer group permissions.</p> <p>Value range:</p> <ul style="list-style-type: none"> • SUB: subscribe permissions. • DENY: no permission.
topic_perms	Array of topic_perms objects	<p>Parameter description: Special topic permissions.</p> <p>Value range: N/A</p>
group_perms	Array of group_perms objects	<p>Parameter description: Special consumer group permissions.</p> <p>Value range: N/A</p>

Table 5-116 topic_perms

Parameter	Type	Description
name	String	<p>Parameter description: Topic name.</p> <p>Value range: N/A</p>

Parameter	Type	Description
perm	String	<p>Parameter description: Topic permission.</p> <p>Value range:</p> <ul style="list-style-type: none"> • PUB: publish permissions. • SUB: subscribe permissions. • PUB SUB: subscribe and publish permissions. • DENY: no permission.

Table 5-117 group_perms

Parameter	Type	Description
name	String	<p>Parameter description: Consumer group name.</p> <p>Value range: N/A</p>
perm	String	<p>Parameter description: Consumer group permissions.</p> <p>Value range:</p> <ul style="list-style-type: none"> • SUB: subscribe permissions. • DENY: no permission.

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" : "*****",
  "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" : "*****",  
    "topic_perms" : [ ],  
    "white_remote_address" : ""  
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

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

```
package com.huaweicloud.sdk.test;  
  
import com.huaweicloud.sdk.core.auth.ICredential;  
import com.huaweicloud.sdk.core.auth.BasicCredentials;  
import com.huaweicloud.sdk.core.exception.ConnectionException;  
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;  
import com.huaweicloud.sdk.core.exception.ServiceResponseException;  
import com.huaweicloud.sdk.rocketmq.v2.region.RocketMQRegion;  
import com.huaweicloud.sdk.rocketmq.v2.*;  
import com.huaweicloud.sdk.rocketmq.v2.model.*;  
  
import java.util.List;  
import java.util.ArrayList;  
  
public class CreateUserSolution {  
  
    public static void main(String[] args) {  
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great  
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or  
        // environment variables and decrypted during use to ensure security.  
        // In this example, AK and SK are stored in environment variables for authentication. Before running  
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
        String ak = System.getenv("CLOUD_SDK_AK");  
        String sk = System.getenv("CLOUD_SDK_SK");  
        String projectId = "{project_id}";  
  
        ICredential auth = new BasicCredentials()  
            .withProjectId(projectId)  
            .withAk(ak)  
            .withSk(sk);  
  
        RocketMQClient client = RocketMQClient.newBuilder()  
            .withCredential(auth)  
            .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))  
            .build();  
        CreateUserRequest request = new CreateUserRequest();  
        request.withInstanceId("{instance_id}");  
        User body = new User();  
        List<UserGroupPerms> listbodyGroupPerms = new ArrayList<>();  
        listbodyGroupPerms.add(  
    }
```

```
new UserGroupPerms()
    .withName("group1")
    .withPerm(UserGroupPerms.PermEnum.fromValue("PUB|SUB"))
);
List<UserTopicPerms> listbodyTopicPerms = new ArrayList<>();
listbodyTopicPerms.add(
    new UserTopicPerms()
        .withName("topic1")
        .withPerm(UserTopicPerms.PermEnum.fromValue("PUB|SUB"))
);
body.withGroupPerms(listbodyGroupPerms);
body.withTopicPerms(listbodyTopicPerms);
body.withDefaultGroupPerm(User.DefaultGroupPermEnum.fromValue("DENY"));
body.withDefaultTopicPerm(User.DefaultTopicPermEnum.fromValue("DENY"));
body.withAdmin(false);
body.withWhiteRemoteAddress("");
body.withSecretKey("*****");
body.withAccessKey("user_name");
request.withBody(body);
try {
    CreateUserResponse response = client.createUser(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

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

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

    credentials = BasicCredentials(ak, sk, projectId)

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

    try:
        request = CreateUserRequest()
        request.instance_id = "{instance_id}"
```

```
listGroupPermsbody = [
    UserGroupPerms(
        name="group1",
        perm="PUB|SUB"
    )
]
listTopicPermsbody = [
    UserTopicPerms(
        name="topic1",
        perm="PUB|SUB"
    )
]
request.body = User(
    group_perms=listGroupPermsbody,
    topic_perms=listTopicPermsbody,
    default_group_perm="DENY",
    default_topic_perm="DENY",
    admin=False,
    white_remote_address="",
    secret_key="*****",
    access_key="user_name"
)
response = client.create_user(request)
print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

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

```
package main

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

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

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

    client := rocketmq.NewRocketMQClient(
        rocketmq.RocketMQClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())
}

request := &model.CreateUserRequest{}
request.InstanceId = "{instance_id}"
```

```
nameGroupPerms:= "group1"
permGroupPerms:= model.GetUserGroupPermsPermEnum().PUB|SUB
var listGroupPermsbody = []model.UserGroupPerms{
{
    Name: &nameGroupPerms,
    Perm: &permGroupPerms,
},
}
nameTopicPerms:= "topic1"
permTopicPerms:= model.GetUserTopicPermsPermEnum().PUB|SUB
var listTopicPermsbody = []model.UserTopicPerms{
{
    Name: &nameTopicPerms,
    Perm: &permTopicPerms,
},
}
defaultGroupPermUser:= model.GetUserDefaultGroupPermEnum().DENY
defaultTopicPermUser:= model.GetUserDefaultTopicPermEnum().DENY
adminUser:= false
whiteRemoteAddressUser:= ""
secretKeyUser:= "*****"
accessKeyUser:= "user_name"
request.Body = &model.User{
    GroupPerms: &listGroupPermsbody,
    TopicPerms: &listTopicPermsbody,
    DefaultGroupPerm: &defaultGroupPermUser,
    DefaultTopicPerm: &defaultTopicPermUser,
    Admin: &adminUser,
    WhiteRemoteAddress: &whiteRemoteAddressUser,
    SecretKey: &secretKeyUser,
    AccessKey: &accessKeyUser,
}
response, err := client.CreateUser(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
```

More

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

Status Codes

Status Code	Description
200	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.

Calling Method

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

URI

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

Table 5-118 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Parameter description: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: N/A Default value: N/A
instance_id	Yes	String	Parameter description: Instance ID. To obtain it, log in to the RocketMQ console and find the instance ID on the RocketMQ instance details page. Constraints: N/A Value range: N/A Default value: N/A

Table 5-119 Query Parameters

Parameter	Mandatory	Type	Description
limit	No	String	Parameter description: Number of records to query. Constraints: N/A Value range: 1–50 Default value: 10
offset	No	String	Parameter description: Offset where the query starts. Constraints: N/A Value range: ≥ 0 Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 5-120 Response body parameters

Parameter	Type	Description
users	Array of UserResp objects	Parameter description: User list.
total	Number	Parameter description: Total number of users. Value range: N/A

Table 5-121 UserResp

Parameter	Type	Description
access_key	String	Parameter description: Username. Value range: N/A
secret_key	String	Parameter description: Secret key. Value range: N/A
white_remote_address	String	Parameter description: IP address whitelist. Value range: N/A
admin	Boolean	Parameter description: Whether the user is an administrator. Value range: <ul style="list-style-type: none"> • true: yes • false: no
default_topic_perm	String	Parameter description: Default topic permissions. Value range: <ul style="list-style-type: none"> • PUB: publish permissions. • SUB: subscribe permissions. • PUB SUB: subscribe and publish permissions. • DENY: no permission.
default_group_perm	String	Parameter description: Default consumer group permissions. Value range: <ul style="list-style-type: none"> • SUB: subscribe permissions. • DENY: no permission.
topic_perms	Array of topic_perms objects	Parameter description: Special topic permissions. Value range: N/A

Parameter	Type	Description
group_perms	Array of group_perms objects	Parameter description: Special consumer group permissions. Value range: N/A

Table 5-122 topic_perms

Parameter	Type	Description
name	String	Parameter description: Topic name. Value range: N/A
perm	String	Parameter description: Topic permission. Value range: <ul style="list-style-type: none"> • PUB: publish permissions. • SUB: subscribe permissions. • PUB SUB: subscribe and publish permissions. • DENY: no permission.

Table 5-123 group_perms

Parameter	Type	Description
name	String	Parameter description: Consumer group name. Value range: N/A
perm	String	Parameter description: Consumer group permissions. Value range: <ul style="list-style-type: none"> • SUB: subscribe permissions. • DENY: no permission.

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" : "*****",  
        "topic_perms" : [ ],  
        "white_remote_address" : ""  
    } ],  
    "total" : 1  
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;  
  
import com.huaweicloud.sdk.core.auth.ICredential;  
import com.huaweicloud.sdk.core.auth.BasicCredentials;  
import com.huaweicloud.sdk.core.exception.ConnectionException;  
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;  
import com.huaweicloud.sdk.core.exception.ServiceResponseException;  
import com.huaweicloud.sdk.rocketmq.v2.region.RocketMQRegion;  
import com.huaweicloud.sdk.rocketmq.v2.*;  
import com.huaweicloud.sdk.rocketmq.v2.model.*;  
  
public class ListUserSolution {  
  
    public static void main(String[] args) {  
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great  
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or  
        // environment variables and decrypted during use to ensure security.  
        // In this example, AK and SK are stored in environment variables for authentication. Before running  
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
        String ak = System.getenv("CLOUD_SDK_AK");  
        String sk = System.getenv("CLOUD_SDK_SK");  
        String projectId = "{project_id}";  
  
        ICredential auth = new BasicCredentials()  
            .withProjectId(projectId)  
            .withAk(ak)  
            .withSk(sk);  
  
        RocketMQClient client = RocketMQClient.newBuilder()  
            .withCredential(auth)  
            .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))  
            .build();  
        ListUserRequest request = new ListUserRequest();  
        request.withInstanceId("{instance_id}");  
        try {  
            ListUserResponse response = client.listUser(request);  
            System.out.println(response.toString());  
        } catch (ConnectionException e) {
```

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

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

    credentials = BasicCredentials(ak, sk, projectId)

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

    try:
        request = ListUserRequest()
        request.instance_id = "{instance_id}"
        response = client.list_user(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

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

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

```
ak := os.Getenv("CLOUD_SDK_AK")
sk := os.Getenv("CLOUD_SDK_SK")
projectId := "{project_id}"

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

client := rocketmq.NewRocketMQClient(
    rocketmq.RocketMQClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.ListUserRequest{}
request.InstanceId = "{instance_id}"
response, err := client.ListUser(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
```

More

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

Status Codes

Status Code	Description
200	Query result.

Error Codes

See [Error Codes](#).

5.5.3 Modifying User Parameters

Function

This API is used to modify user parameters.

Calling Method

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

URI

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

Table 5-124 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	<p>Parameter description: Project ID. For details, see Obtaining a Project ID.</p> <p>Constraints: N/A</p> <p>Value range: N/A</p> <p>Default value: N/A</p>
instance_id	Yes	String	<p>Parameter description: Instance ID. To obtain it, log in to the RocketMQ console and find the instance ID on the RocketMQ instance details page.</p> <p>Constraints: N/A</p> <p>Value range: N/A</p> <p>Default value: N/A</p>
user_name	Yes	String	<p>Parameter description: Username.</p> <p>Constraints: N/A</p> <p>Value range: N/A</p> <p>Default value: N/A</p>

Request Parameters

Table 5-125 Request body parameters

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

Parameter	Mandatory	Type	Description
white_remote_address	No	String	<p>Parameter description: IP address whitelist.</p> <p>Constraints: N/A</p> <p>Value range: N/A</p> <p>Default value: N/A</p>
admin	No	Boolean	<p>Parameter description: Whether the user is an administrator.</p> <p>Constraints: N/A</p> <p>Value range:</p> <ul style="list-style-type: none"> • true: yes • false: no <p>Default value: N/A</p>
default_topic_perm	No	String	<p>Parameter description: Default topic permissions.</p> <p>Constraints: N/A</p> <p>Value range:</p> <ul style="list-style-type: none"> • pub: publish permissions. • sub: subscribe permissions. • PUB sub: subscribe and publish permissions. • DENY: no permission. <p>Default value: N/A</p>

Parameter	Mandatory	Type	Description
default_group_perm	No	String	<p>Parameter description: Default consumer group permissions.</p> <p>Constraints: N/A</p> <p>Value range:</p> <ul style="list-style-type: none"> • sub: subscribe permissions. • DENY: no permission. <p>Default value: N/A</p>
topic_perms	No	Array of topic_perms objects	<p>Parameter description: Special topic permissions.</p> <p>Constraints: N/A</p> <p>Value range: N/A</p> <p>Default value: N/A</p>
group_perms	No	Array of group_perms objects	<p>Parameter description: Special consumer group permissions.</p> <p>Constraints: N/A</p> <p>Value range: N/A</p> <p>Default value: N/A</p>

Table 5-126 topic_perms

Parameter	Mandatory	Type	Description
name	No	String	<p>Parameter description: Topic name.</p> <p>Constraints: N/A</p> <p>Value range: N/A</p> <p>Default value: N/A</p>
perm	No	String	<p>Parameter description: Topic permission.</p> <p>Constraints: N/A</p> <p>Value range:</p> <ul style="list-style-type: none"> • pub: publish permissions. • sub: subscribe permissions. • PUB sub: subscribe and publish permissions. • DENY: no permission. <p>Default value: N/A</p>

Table 5-127 group_perms

Parameter	Mandatory	Type	Description
name	No	String	<p>Parameter description: Consumer group name.</p> <p>Constraints: N/A</p> <p>Value range: N/A</p> <p>Default value: N/A</p>

Parameter	Mandatory	Type	Description
perm	No	String	<p>Parameter description: Consumer group permissions.</p> <p>Constraints: N/A</p> <p>Value range:</p> <ul style="list-style-type: none"> • sub: subscribe permissions. • DENY: no permission. <p>Default value: N/A</p>

Response Parameters

Status code: 200

Table 5-128 Response body parameters

Parameter	Type	Description
access_key	String	<p>Parameter description: Username.</p> <p>Value range: N/A</p>
secret_key	String	<p>Parameter description: Secret key.</p> <p>Value range: N/A</p>
white_remote_address	String	<p>Parameter description: IP address whitelist.</p> <p>Value range: N/A</p>
admin	Boolean	<p>Parameter description: Whether the user is an administrator.</p> <p>Value range:</p> <ul style="list-style-type: none"> • true: yes • false: no

Parameter	Type	Description
default_topic_perm	String	<p>Parameter description: Default topic permissions.</p> <p>Value range:</p> <ul style="list-style-type: none"> • PUB: publish permissions. • SUB: subscribe permissions. • PUB SUB: subscribe and publish permissions. • DENY: no permission.
default_group_perm	String	<p>Parameter description: Default consumer group permissions.</p> <p>Value range:</p> <ul style="list-style-type: none"> • SUB: subscribe permissions. • DENY: no permission.
topic_perms	Array of topic_perms objects	<p>Parameter description: Special topic permissions.</p> <p>Value range: N/A</p>
group_perms	Array of group_perms objects	<p>Parameter description: Special consumer group permissions.</p> <p>Value range: N/A</p>

Table 5-129 topic_perms

Parameter	Type	Description
name	String	<p>Parameter description: Topic name.</p> <p>Value range: N/A</p>
perm	String	<p>Parameter description: Topic permission.</p> <p>Value range:</p> <ul style="list-style-type: none"> • PUB: publish permissions. • SUB: subscribe permissions. • PUB SUB: subscribe and publish permissions. • DENY: no permission.

Table 5-130 group_perms

Parameter	Type	Description
name	String	Parameter description: Consumer group name. Value range: N/A
perm	String	Parameter description: Consumer group permissions. Value range: <ul style="list-style-type: none">• SUB: subscribe permissions.• DENY: no permission.

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" : "*****",  
    "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" : "*****",  
    "topic_perms" : [ ],  
    "white_remote_address" : ""  
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

Granting user_name permissions to publish and subscribe to topic1 and group1

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

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

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

public class UpdateUserSolution {

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

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

        RocketMQClient client = RocketMQClient.newBuilder()
            .withCredential(auth)
            .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))
            .build();
        UpdateUserRequest request = new UpdateUserRequest();
        request.withInstanceId("{instance_id}");
        request.withUserName("{user_name}");
        User body = new User();
        List<UserGroupPerms> listbodyGroupPerms = new ArrayList<>();
        listbodyGroupPerms.add(
            new UserGroupPerms()
                .withName("group1")
                .withPerm(UserGroupPerms.PermEnum.fromValue("PUB|SUB"))
        );
        List<UserTopicPerms> listbodyTopicPerms = new ArrayList<>();
        listbodyTopicPerms.add(
            new UserTopicPerms()
                .withName("topic1")
                .withPerm(UserTopicPerms.PermEnum.fromValue("PUB|SUB"))
        );
        body.withGroupPerms(listbodyGroupPerms);
        body.withTopicPerms(listbodyTopicPerms);
        body.withDefaultGroupPerm(User.DefaultGroupPermEnum.fromValue("DENY"));
        body.withDefaultTopicPerm(User.DefaultTopicPermEnum.fromValue("DENY"));
        body.withAdmin(false);
        body.withWhiteRemoteAddress("");
        body.withSecretKey("*****");
        body.withAccessKey("user_name");
        request.withBody(body);
        try {
            UpdateUserResponse response = client.updateUser(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        }
    }
}
```

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

Python

Granting user_name permissions to publish and subscribe to topic1 and group1

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

    credentials = BasicCredentials(ak, sk, projectId)

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

    try:
        request = UpdateUserRequest()
        request.instance_id = "{instance_id}"
        request.user_name = "{user_name}"
        listGroupPermsbody = [
            UserGroupPerms(
                name="group1",
                perm="PUB|SUB"
            )
        ]
        listTopicPermsbody = [
            UserTopicPerms(
                name="topic1",
                perm="PUB|SUB"
            )
        ]
        request.body = User(
            group_perms=listGroupPermsbody,
            topic_perms=listTopicPermsbody,
            default_group_perm="DENY",
            default_topic_perm="DENY",
            admin=False,
            white_remote_address="",
            secret_key="*****",
            access_key="user_name"
        )
        response = client.update_user(request)
        print(response)
    
```

```
except exceptions.ClientRequestException as e:  
    print(e.status_code)  
    print(e.request_id)  
    print(e.error_code)  
    print(e.error_msg)
```

Go

Granting user_name permissions to publish and subscribe to topic1 and group1

```
package main  
  
import (  
    "fmt"  
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"  
    rocketmq "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/rocketmq/v2"  
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/rocketmq/v2/model"  
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/rocketmq/v2/region"  
)  
  
func main() {  
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    // variables and decrypted during use to ensure security.  
    // In this example, AK and SK are stored in environment variables for authentication. Before running this  
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak := os.Getenv("CLOUD_SDK_AK")  
    sk := os.Getenv("CLOUD_SDK_SK")  
    projectId := "{project_id}"  
  
    auth := basic.NewCredentialsBuilder().  
        WithAk(ak).  
        WithSk(sk).  
        WithProjectId(projectId).  
        Build()  
  
    client := rocketmq.NewRocketMQClient(  
        rocketmq.RocketMQClientBuilder().  
            WithRegion(region.ValueOf("<YOUR REGION>")).  
            WithCredential(auth).  
            Build())  
  
    request := &model.UpdateUserRequest{}  
    request.InstanceId = "{instance_id}"  
    request.UserName = "{user_name}"  
    nameGroupPerms:= "group1"  
    permGroupPerms:= model.GetUserGroupPermsPermEnum().PUB|SUB  
    var listGroupPermsbody = []model.UserGroupPerms{  
        {  
            Name: &nameGroupPerms,  
            Perm: &permGroupPerms,  
        },  
    }  
    nameTopicPerms:= "topic1"  
    permTopicPerms:= model.GetUserTopicPermsPermEnum().PUB|SUB  
    var listTopicPermsbody = []model.UserTopicPerms{  
        {  
            Name: &nameTopicPerms,  
            Perm: &permTopicPerms,  
        },  
    }  
    defaultGroupPermUser:= model.GetUserDefaultGroupPermEnum().DENY  
    defaultTopicPermUser:= model.GetUserDefaultTopicPermEnum().DENY  
    adminUser:= false  
    whiteRemoteAddressUser:= ""  
    secretKeyUser:= "*****"  
    accessKeyUser:= "user_name"  
    request.Body = &model.User{  
        GroupPerms: &listGroupPermsbody,
```

```
TopicPerms: &listTopicPermsbody,
DefaultGroupPerm: &defaultGroupPermUser,
DefaultTopicPerm: &defaultTopicPermUser,
Admin: &adminUser,
WhiteRemoteAddress: &whiteRemoteAddressUser,
SecretKey: &secretKeyUser,
AccessKey: &accessKeyUser,
}
response, err := client.UpdateUser(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
```

More

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

Status Codes

Status Code	Description
200	The modification is successful.

Error Codes

See [Error Codes](#).

5.5.4 Querying User Details

Function

This API is used to query user details.

Calling Method

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

URI

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

Table 5-131 Path Parameters

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

Parameter	Mandatory	Type	Description
user_name	Yes	String	Username.

Request Parameters

None

Response Parameters

Status code: 200

Table 5-132 Response body parameters

Parameter	Type	Description
access_key	String	Parameter description: Username. Value range: N/A
secret_key	String	Parameter description: Secret key. Value range: N/A
white_remote_address	String	Parameter description: IP address whitelist. Value range: N/A
admin	Boolean	Parameter description: Whether the user is an administrator. Value range: <ul style="list-style-type: none"> • true: yes • false: no
default_topic_perm	String	Parameter description: Default topic permissions. Value range: <ul style="list-style-type: none"> • PUB: publish permissions. • SUB: subscribe permissions. • PUB SUB: subscribe and publish permissions. • DENY: no permission.

Parameter	Type	Description
default_group_per_m	String	<p>Parameter description: Default consumer group permissions.</p> <p>Value range:</p> <ul style="list-style-type: none"> • SUB: subscribe permissions. • DENY: no permission.
topic_perms	Array of topic_perms objects	<p>Parameter description: Special topic permissions.</p> <p>Value range: N/A</p>
group_perms	Array of group_perms objects	<p>Parameter description: Special consumer group permissions.</p> <p>Value range: N/A</p>

Table 5-133 topic_perms

Parameter	Type	Description
name	String	<p>Parameter description: Topic name.</p> <p>Value range: N/A</p>
perm	String	<p>Parameter description: Topic permission.</p> <p>Value range:</p> <ul style="list-style-type: none"> • PUB: publish permissions. • SUB: subscribe permissions. • PUB SUB: subscribe and publish permissions. • DENY: no permission.

Table 5-134 group_perms

Parameter	Type	Description
name	String	Parameter description: Consumer group name. Value range: N/A
perm	String	Parameter description: Consumer group permissions. Value range: <ul style="list-style-type: none">• SUB: subscribe permissions.• DENY: no permission.

Example Requests

Querying user details

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

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" : "*****",  
    "topic_perms" : [ ],  
    "white_remote_address" : ""  
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

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

```

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

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

    RocketMQClient client = RocketMQClient.newBuilder()
        .withCredential(auth)
        .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))
        .build();
    ShowUserRequest request = new ShowUserRequest();
    request.withInstanceId("{instance_id}");
    request.withUserName("{user_name}");
    try {
        ShowUserResponse response = client.showUser(request);
        System.out.println(response.toString());
    } catch (ConnectionException e) {
        e.printStackTrace();
    } catch (RequestTimeoutException e) {
        e.printStackTrace();
    } catch (ServiceResponseException e) {
        e.printStackTrace();
        System.out.println(e.getHttpStatusCode());
        System.out.println(e.getRequestId());
        System.out.println(e.getErrorCode());
        System.out.println(e.getErrorMsg());
    }
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

    credentials = BasicCredentials(ak, sk, projectId)

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

    try:
        request = ShowUserRequest()
```

```
request.instance_id = "{instance_id}"
request.user_name = "{user_name}"
response = client.show_user(request)
print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

```
package main

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

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

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

    client := rocketmq.NewRocketMQClient(
        rocketmq.RocketMQClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>").
            WithCredential(auth).
            Build())

    request := &model.ShowUserRequest{}
    request.InstanceId = "{instance_id}"
    request.UserName = "{user_name}"
    response, err := client.ShowUser(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

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

Status Codes

Status Code	Description
200	User details queried successfully.

Error Codes

See [Error Codes](#).

5.5.5 Deleting a User

Function

This API is used to delete a user.

Calling Method

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

URI

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

Table 5-135 Path Parameters

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

Request Parameters

None

Response Parameters

Status code: 200

Table 5-136 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

None

SDK Sample Code

The SDK sample code is as follows.

Java

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

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

public class DeleteUserSolution {

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

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

        RocketMQClient client = RocketMQClient.newBuilder()
            .withCredential(auth)
            .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))
            .build();
        DeleteUserRequest request = new DeleteUserRequest();
        request.withInstanceId="{{instance_id}}";
        request.withUserName="{{user_name}}";
        try {
            DeleteUserResponse response = client.deleteUser(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatus());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

```
    }
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

    credentials = BasicCredentials(ak, sk, projectId)

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

    try:
        request = DeleteUserRequest()
        request.instance_id = "{instance_id}"
        request.user_name = "{user_name}"
        response = client.delete_user(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

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

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

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

```
client := rocketmq.NewRocketMQClient(  
    rocketmq.RocketMQClientBuilder().  
        WithRegion(region.ValueOf("<YOUR REGION>")).  
        WithCredential(auth).  
        Build())  
  
request := &model.DeleteUserRequest{}  
request.InstanceId = "{instance_id}"  
request.UserName = "{user_name}"  
response, err := client.DeleteUser(request)  
if err == nil {  
    fmt.Printf("%+v\n", response)  
} else {  
    fmt.Println(err)  
}  
}
```

More

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

Status Codes

Status Code	Description
200	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.

Calling Method

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

URI

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

Table 5-137 Path Parameters

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

Table 5-138 Query Parameters

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

Request Parameters

None

Response Parameters

Status code: 200

Table 5-139 Response body parameters

Parameter	Type	Description
policies	Array of policies objects	User list.
total	Number	Total number of users.
name	String	Name of the topic or consumer group.

Table 5-140 policies

Parameter	Type	Description
access_key	String	Username.
secret_key	String	Key.

Parameter	Type	Description
white_remote_address	String	IP address whitelist.
admin	Boolean	Whether the user is an administrator.
perm	String	Permissions.

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": [ ],  
    "total": 0,  
    "name": "test"  
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

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

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

public class ListTopicAccessPolicySolution {

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

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

```
RocketMQClient client = RocketMQClient.newBuilder()
    .withCredential(auth)
    .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))
    .build();
ListTopicAccessPolicyRequest request = new ListTopicAccessPolicyRequest();
request.withInstanceId("{instance_id}");
request.withTopic("{topic}");
try {
    ListTopicAccessPolicyResponse response = client.listTopicAccessPolicy(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

    credentials = BasicCredentials(ak, sk, projectId)

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

    try:
        request = ListTopicAccessPolicyRequest()
        request.instance_id = "{instance_id}"
        request.topic = "{topic}"
        response = client.list_topic_access_policy(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
```

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

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

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

    client := rocketmq.NewRocketMQClient(
        rocketmq.RocketMQClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>").
            WithCredential(auth).
            Build()))

    request := &model.ListTopicAccessPolicyRequest{}
    request.InstanceId = "{instance_id}"
    request.Topic = "{topic}"
    response, err := client.ListTopicAccessPolicy(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

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

Status Codes

Status Code	Description
200	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 that have been granted permissions for a consumer group.

Calling Method

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

URI

GET /v2/{engine}/{project_id}/instances/{instance_id}/groups/{group_id}/accesspolicy

Table 5-141 Path Parameters

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

Table 5-142 Query Parameters

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

Request Parameters

None

Response Parameters

Status code: 200

Table 5-143 Response body parameters

Parameter	Type	Description
policies	Array of policies objects	User list.
total	Number	Total number of users.
name	String	Name of the topic or consumer group.

Table 5-144 policies

Parameter	Type	Description
access_key	String	Username.
secret_key	String	Key.
white_remote_address	String	IP address whitelist.
admin	Boolean	Whether the user is an administrator.
perm	String	Permissions.

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 successfully.

```
{
  "policies": [
    {
      "access_key": "test_01",
      "secret_key": "*****",
      "white_remote_address": "",
      "admin": false,
      "perm": ""
    }
  ],
  "total": 1,
  "name": "test"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

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

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

public class ListConsumeGroupAccessPolicySolution {

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

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

        RocketMQClient client = RocketMQClient.newBuilder()
            .withCredential(auth)
            .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))
            .build();
        ListConsumeGroupAccessPolicyRequest request = new ListConsumeGroupAccessPolicyRequest();
        request.withEngine(ListConsumeGroupAccessPolicyRequest.EngineEnum.fromValue("{engine}"));
        request.withInstanceId("{instance_id}");
        request.withGroupId("{group_id}");
        try {
            ListConsumeGroupAccessPolicyResponse response = client.listConsumeGroupAccessPolicy(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

```
sk = os.environ["CLOUD_SDK_SK"]
projectId = "{project_id}"

credentials = BasicCredentials(ak, sk, projectId)

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

try:
    request = ListConsumeGroupAccessPolicyRequest()
    request.engine = "{engine}"
    request.instance_id = "{instance_id}"
    request.group_id = "{group_id}"
    response = client.list_consume_group_access_policy(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

```
package main

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

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

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

    client := rocketmq.NewRocketMQClient(
        rocketmq.RocketMQClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListConsumeGroupAccessPolicyRequest{}
    request.Engine = model.GetListConsumeGroupAccessPolicyRequestEngineEnum().ENGINE
    request.InstanceId = "{instance_id}"
    request.GroupId = "{group_id}"
    response, err := client.ListConsumeGroupAccessPolicy(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

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

Status Codes

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

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.

Calling Method

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

URI

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

Table 5-145 Path Parameters

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

Table 5-146 Query Parameters

Parameter	Mandatory	Type	Description
overwrite	Yes	String	true : Configurations in the metadata file with the same name as the uploaded file will be overwritten. false : 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 rocketmq or rabbitToRocket .

Request Parameters

Table 5-147 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 rocketmq migration tasks (from self-built RocketMQ instances to DMS for RocketMQ).
subscriptionGroupTable	No	Map<String, MigrationRocketMqSubscriptionGroup >	RocketMQ consumer group metadata. The consumer group name is the key and the configuration is the value. This parameter is mandatory for rocketmq migration tasks (from self-built RocketMQ instances to DMS for RocketMQ).

Parameter	Mandatory	Type	Description
vhosts	No	Array of MigrationRabbitVhostMetadata objects	RabbitMQ virtual host metadata list. This parameter is mandatory for rabbitToRocket migration tasks (from self-built RabbitMQ instances to DMS for RocketMQ).
queues	No	Array of MigrationRabbitQueueMetadata objects	RabbitMQ queue metadata list. This parameter is mandatory for rabbitToRocket migration tasks (from self-built RabbitMQ instances to DMS for RocketMQ).
exchanges	No	Array of MigrationRabbitExchangeMetadata objects	RabbitMQ exchange metadata list. This parameter is mandatory for rabbitToRocket migration tasks (from self-built RabbitMQ instances to DMS for RocketMQ).
bindings	No	Array of MigrationRabbitBindingMetadata objects	RabbitMQ binding metadata list. This parameter is mandatory for rabbitToRocket migration tasks (from self-built RabbitMQ instances to DMS for RocketMQ).

Table 5-148 MigrationRocketMqTopicConfig

Parameter	Mandatory	Type	Description
topicName	No	String	Topic name.
topic_name	No	String	Topic name.
order	No	Boolean	Indicates whether a message is an ordered message.
perm	No	Integer	Topic permission.
readQueueNums	No	Integer	Number of read queues.
read_queue_nums	No	Integer	Number of read queues.

Parameter	Mandatory	Type	Description
writeQueueNums	No	Integer	Number of write queues.
write_queue_nums	No	Integer	Number of write queues.
topicFilterType	No	String	Topic filtering type. <ul style="list-style-type: none"> • SINGLE_TAG: single tag • MULTI_TAG: multiple tags
topic_filter_type	No	String	Topic filtering type. <ul style="list-style-type: none"> • SINGLE_TAG: single tag • MULTI_TAG: multiple tags
topicSysFlag	No	Integer	Topic system flag.
topic_sys_flag	No	Integer	Topic system flag.

Table 5-149 MigrationRocketMqSubscriptionGroup

Parameter	Mandatory	Type	Description
groupName	No	String	Consumer group name.
group_name	No	String	Consumer group name.
consumeBroadCastEnable	No	Boolean	Indicates whether to enable broadcast.
consume_broadCast_enable	No	Boolean	Indicates whether to enable broadcast.
consumeEnable	No	Boolean	Indicates whether to enable consumption.
consume_enable	No	Boolean	Indicates whether to enable consumption.
consumeFromMinEnable	No	Boolean	Indicates whether to enable consumption from the earliest offset.
consume_from_min_enable	No	Boolean	Indicates whether to enable consumption from the earliest offset.
notifyConsumerIdsChangedEnable	No	Boolean	Indicates whether to notify consumer ID changes.

Parameter	Mandatory	Type	Description
notify_consumer_ids_changed_enable	No	Boolean	Indicates whether to notify consumer ID changes.
retryMaxTimeS	No	Integer	Maximum number of consumption retries.
retry_max_times	No	Integer	Maximum number of consumption retries.
retryQueueNums	No	Integer	Number of retry queues.
retry_queue_nums	No	Integer	Number of retry queues.
whichBrokerWhenConsumeSlow	No	Long	ID of the broker selected for slow consumption.
which_broker_when_consume_slow	No	Long	ID of the broker selected for slow consumption.

Table 5-150 MigrationRabbitVhostMetadata

Parameter	Mandatory	Type	Description
name	No	String	Virtual host name.

Table 5-151 MigrationRabbitQueueMetadata

Parameter	Mandatory	Type	Description
vhost	No	String	Virtual host name.
name	No	String	Queue name.
durable	No	Boolean	Indicates whether to enable data persistence.

Table 5-152 MigrationRabbitExchangeMetadata

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

Parameter	Mandatory	Type	Description
type	No	String	Exchange type.
durable	No	Boolean	Indicates whether to enable data persistence.

Table 5-153 MigrationRabbitBindingMetadata

Parameter	Mandatory	Type	Description
vhost	No	String	Virtual host name.
source	No	String	Message source.
destination	No	String	Message target.
destination_type	No	String	Message target type.
routing_key	No	String	Routing key.

Response Parameters

Status code: 200

Table 5-154 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,
      "readQueueNums": 3,
      "topicFilterType": "SINGLE_TAG",
      "topicName": "topic-test1",
      "topicSysFlag": 0,
      "writeQueueNums": 3
    }
  },
  "subscriptionGroupTable": {
    "group-test1": {
      "consumeBroadcastEnable": true,
```

```
        "consumeEnable" : true,
        "consumeFromMinEnable" : true,
        "groupName" : "group-test1",
        "notifyConsumerIdsChangedEnable" : true,
        "retryMaxTimes" : 2,
        "retryQueueNums" : 1,
        "whichBrokerWhenConsumeSlow" : 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" : "6cf4dc3-8471-4139-8b5b-8a3a71f704c7"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

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

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

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

```
import com.huaweicloud.sdk.rocketmq.v2.region.RocketMQRegion;
import com.huaweicloud.sdk.rocketmq.v2.*;
import com.huaweicloud.sdk.rocketmq.v2.model.*;

import java.util.Map;
import java.util.HashMap;

public class CreateRocketMqMigrationTaskSolution {

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

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

        RocketMQClient client = RocketMQClient.newBuilder()
            .withCredential(auth)
            .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))
            .build();
        CreateRocketMqMigrationTaskRequest request = new CreateRocketMqMigrationTaskRequest();
        request.withInstanceId("{instance_id}");
        CreateRocketMqMigrationTaskReq body = new CreateRocketMqMigrationTaskReq();
        MigrationRocketMqSubscriptionGroup subscriptionGroupTableSubscriptionGroupTable = new
        MigrationRocketMqSubscriptionGroup();
        subscriptionGroupTableSubscriptionGroupTable.withGroupName("group-test1")
            .withConsumeBroadcastEnable(true)
            .withConsumeEnable(true)
            .withConsumeFromMinEnable(true)
            .withNotifyConsumerIdsChangedEnable(true)
            .withRetryMaxTimes(2)
            .withRetryQueueNums(1)
            .withWhichBrokerWhenConsumeSlow(1L);
        Map<String, MigrationRocketMqSubscriptionGroup> listbodySubscriptionGroupTable = new
        HashMap<>();
        listbodySubscriptionGroupTable.put("group-test1",
        subscriptionGroupTableSubscriptionGroupTable);
        MigrationRocketMqTopicConfig topicConfigTableTopicConfigTable = new
        MigrationRocketMqTopicConfig();
        topicConfigTableTopicConfigTable.withTopicName("topic-test1")
            .withOrder(false)
            .withPerm(6)
            .withReadQueueNums(3)
            .withWriteQueueNums(3)
            .withTopicFilterType("SINGLE_TAG")
            .withTopicSysFlag(0);
        Map<String, MigrationRocketMqTopicConfig> listbodyTopicConfigTable = new HashMap<>();
        listbodyTopicConfigTable.put("topic-test1", topicConfigTableTopicConfigTable);
        body.withSubscriptionGroupTable(listbodySubscriptionGroupTable);
        body.withTopicConfigTable(listbodyTopicConfigTable);
        request.withBody(body);
        try {
            CreateRocketMqMigrationTaskResponse response =
            client.createRocketMqMigrationTask(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
```

```
        e.printStackTrace();
        System.out.println(e.getHttpStatusCode());
        System.out.println(e.getRequestId());
        System.out.println(e.getErrorCode());
        System.out.println(e.getErrorMsg());
    }
}
}
```

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

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

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

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

public class CreateRocketMqMigrationTaskSolution {

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

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

        RocketMQClient client = RocketMQClient.newBuilder()
            .withCredential(auth)
            .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))
            .build();
        CreateRocketMqMigrationTaskRequest request = new CreateRocketMqMigrationTaskRequest();
        request.withInstanceId("{instance_id}");
        CreateRocketMqMigrationTaskReq body = new CreateRocketMqMigrationTaskReq();
        List<MigrationRabbitBindingMetadata> listbodyBindings = new ArrayList<>();
        listbodyBindings.add(
            new MigrationRabbitBindingMetadata()
                .withVhost("/")
                .withSource("direct")
                .withDestination("test-001")
                .withDestinationType("queue")
                .withRoutingKey("test-001")
        );
        List<MigrationRabbitExchangeMetadata> listbodyExchanges = new ArrayList<>();
        listbodyExchanges.add(
            new MigrationRabbitExchangeMetadata()
                .withVhost("/")
                .withName("direct")
                .withType("topic")
                .withDurable(false)
        );
        List<MigrationRabbitQueueMetadata> listbodyQueues = new ArrayList<>();
        listbodyQueues.add(

```

```
        new MigrationRabbitQueueMetadata()
            .withVhost("/")
            .withName("test-001")
            .withDurable(false)
    );
List<MigrationRabbitVhostMetadata> listbodyVhosts = new ArrayList<>();
listbodyVhosts.add(
    new MigrationRabbitVhostMetadata()
        .withName("DeleteVhost123")
);
body.withBindings(listbodyBindings);
body.withExchanges(listbodyExchanges);
body.withQueues(listbodyQueues);
body.withVhosts(listbodyVhosts);
request.withBody(body);
try {
    CreateRocketMqMigrationTaskResponse response =
client.createRocketMqMigrationTask(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatus());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

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

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

    credentials = BasicCredentials(ak, sk, projectId)

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

    try:
        request = CreateRocketMqMigrationTaskRequest()
        request.instance_id = "{instance_id}"
        subscriptionGroupTableSubscriptionGroupTable = MigrationRocketMqSubscriptionGroup(
            group_name="group-test1",

```

```
        consume_broadcast_enable=True,
        consume_enable=True,
        consume_from_min_enable=True,
        notify_consumer_ids_changed_enable=True,
        retry_max_times=2,
        retry_queue_nums=1,
        which_broker_when_consume_slow=1
    )
listSubscriptionGroupTablebody = {
    "group-test1": subscriptionGroupTableSubscriptionGroupTable
}
topicConfigTableTopicConfigTable = MigrationRocketMqTopicConfig(
    topic_name="topic-test1",
    order=False,
    perm=6,
    read_queue_nums=3,
    write_queue_nums=3,
    topic_filter_type="SINGLE_TAG",
    topic_sys_flag=0
)
listTopicConfigTablebody = {
    "topic-test1": topicConfigTableTopicConfigTable
}
request.body = CreateRocketMqMigrationTaskReq(
    subscription_group_table=listSubscriptionGroupTablebody,
    topic_config_table=listTopicConfigTablebody
)
response = client.create_rocket_mq_migration_task(request)
print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

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

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

    credentials = BasicCredentials(ak, sk, projectId)

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

    try:
        request = CreateRocketMqMigrationTaskRequest()
        request.instance_id = "{instance_id}"
        listBindingsbody = [
            MigrationRabbitBindingMetadata(
                vhost="/",
```

```
        source="direct",
        destination="test-001",
        destination_type="queue",
        routing_key="test-001"
    )
]
listExchangesbody = [
    MigrationRabbitExchangeMetadata(
        vhost="/",
        name="direct",
        type="topic",
        durable=False
    )
]
listQueuesbody = [
    MigrationRabbitQueueMetadata(
        vhost="/",
        name="test-001",
        durable=False
    )
]
listVhostsbody = [
    MigrationRabbitVhostMetadata(
        name="DeleteVhost123"
    )
]
request.body = CreateRocketMqMigrationTaskReq(
    bindings=listBindingsbody,
    exchanges=listExchangesbody,
    queues=listQueuesbody,
    vhosts=listVhostsbody
)
response = client.create_rocket_mq_migration_task(request)
print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

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

```
package main

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

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

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

```
WithProjectId(projectId).
Build()

client := rocketmq.NewRocketMQClient(
    rocketmq.RocketMQClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.CreateRocketMqMigrationTaskRequest{}
request.InstanceId = "{instance_id}"
groupNameSubscriptionGroupTable:= "group-test1"
consumeBroadcastEnableSubscriptionGroupTable:= true
consumeEnableSubscriptionGroupTable:= true
consumeFromMinEnableSubscriptionGroupTable:= true
notifyConsumerIdsChangedEnableSubscriptionGroupTable:= true
retryMaxTimesSubscriptionGroupTable:= int32(2)
retryQueueNumsSubscriptionGroupTable:= int32(1)
whichBrokerWhenConsumeSlowSubscriptionGroupTable:= int64(1)
subscriptionGroupTableSubscriptionGroupTable := model.MigrationRocketMqSubscriptionGroup{
    GroupName: &groupNameSubscriptionGroupTable,
    ConsumeBroadcastEnable: &consumeBroadcastEnableSubscriptionGroupTable,
    ConsumeEnable: &consumeEnableSubscriptionGroupTable,
    ConsumeFromMinEnable: &consumeFromMinEnableSubscriptionGroupTable,
    NotifyConsumerIdsChangedEnable: &notifyConsumerIdsChangedEnableSubscriptionGroupTable,
    RetryMaxTimes: &retryMaxTimesSubscriptionGroupTable,
    RetryQueueNums: &retryQueueNumsSubscriptionGroupTable,
    WhichBrokerWhenConsumeSlow: &whichBrokerWhenConsumeSlowSubscriptionGroupTable,
}
var listSubscriptionGroupTablebody = map[string](model.MigrationRocketMqSubscriptionGroup){
    "group-test1": subscriptionGroupTableSubscriptionGroupTable,
}
topicNameTopicConfigTable:= "topic-test1"
orderTopicConfigTable:= false
permTopicConfigTable:= int32(6)
readQueueNumsTopicConfigTable:= int32(3)
writeQueueNumsTopicConfigTable:= int32(3)
topicFilterTypeTopicConfigTable:= "SINGLE_TAG"
topicSysFlagTopicConfigTable:= int32(0)
topicConfigTableTopicConfigTable := model.MigrationRocketMqTopicConfig{
    TopicName: &topicNameTopicConfigTable,
    Order: &orderTopicConfigTable,
    Perm: &permTopicConfigTable,
    ReadQueueNums: &readQueueNumsTopicConfigTable,
    WriteQueueNums: &writeQueueNumsTopicConfigTable,
    TopicFilterType: &topicFilterTypeTopicConfigTable,
    TopicSysFlag: &topicSysFlagTopicConfigTable,
}
var listTopicConfigTablebody = map[string](model.MigrationRocketMqTopicConfig){
    "topic-test1": topicConfigTableTopicConfigTable,
}
request.Body = &model.CreateRocketMqMigrationTaskReq{
    SubscriptionGroupTable: listSubscriptionGroupTablebody,
    TopicConfigTable: listTopicConfigTablebody,
}
response, err := client.CreateRocketMqMigrationTask(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
```

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

```
package main

import (
    "fmt"
```

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

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

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

    client := rocketmq.NewRocketMQClient(
        rocketmq.RocketMQClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())
}

request := &model.CreateRocketMqMigrationTaskRequest{}
request.InstanceId = "{instance_id}"
vhostBindings:= "/"
sourceBindings:= "direct"
destinationBindings:= "test-001"
destinationTypeBindings:= "queue"
routingKeyBindings:= "test-001"
var listBindingsbody = []model.MigrationRabbitBindingMetadata{
    {
        Vhost: &vhostBindings,
        Source: &sourceBindings,
        Destination: &destinationBindings,
        DestinationType: &destinationTypeBindings,
        RoutingKey: &routingKeyBindings,
    },
}
vhostExchanges:= "/"
nameExchanges:= "direct"
typeExchanges:= "topic"
durableExchanges:= false
var listExchangesbody = []model.MigrationRabbitExchangeMetadata{
    {
        Vhost: &vhostExchanges,
        Name: &nameExchanges,
        Type: &typeExchanges,
        Durable: &durableExchanges,
    },
}
vhostQueues:= "/"
nameQueues:= "test-001"
durableQueues:= false
var listQueuesbody = []model.MigrationRabbitQueueMetadata{
    {
        Vhost: &vhostQueues,
        Name: &nameQueues,
        Durable: &durableQueues,
    },
}
nameVhosts:= "DeleteVhost123"
var listVhostsbody = []model.MigrationRabbitVhostMetadata{
```

```
{  
    Name: &nameVhosts,  
},  
}  
request.Body = &model.CreateRocketMqMigrationTaskReq{  
    Bindings: &listBindingsbody,  
    Exchanges: &listExchangesbody,  
    Queues: &listQueuesbody,  
    Vhosts: &listVhostsbody,  
}  
response, err := client.CreateRocketMqMigrationTask(request)  
if err == nil {  
    fmt.Printf("%+v\n", response)  
} else {  
    fmt.Println(err)  
}  
}
```

More

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

Status Codes

Status Code	Description
200	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.

Calling Method

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

URI

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

Table 5-155 Path Parameters

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

Table 5-156 Query Parameters

Parameter	Mandatory	Type	Description
id	No	String	Task ID.
type	No	String	Query type.
offset	No	String	Current page number, which starts from 1.
limit	No	String	Current page size.
name	No	String	<ul style="list-style-type: none"> When the vhost list is queried, this field can be left empty. When the exchange list is queried, set this field to the name of the vhost to which the exchange belongs. When the queue list is queried, set this field to <i>vhost of the queue's exchange-queue's exchange</i>, for example, vhost1-exchange1.

Request Parameters

None

Response Parameters

Status code: 200

Table 5-157 Response body parameters

Parameter	Type	Description
total	Integer	Total number of metadata migration tasks.

Parameter	Type	Description
task	Array of MetadataTask objects	List of metadata migration tasks.

Table 5-158 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.
status	String	Status of a metadata migration task.
type	String	Metadata migration type.

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"  
    } ]  
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

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

```
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.rocketmq.v2.region.RocketMQRegion;
import com.huaweicloud.sdk.rocketmq.v2.*;
import com.huaweicloud.sdk.rocketmq.v2.model.*;

public class ListRocketMqMigrationTaskSolution {

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

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

        RocketMQClient client = RocketMQClient.newBuilder()
            .withCredential(auth)
            .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))
            .build();
        ListRocketMqMigrationTaskRequest request = new ListRocketMqMigrationTaskRequest();
        request.withInstanceId("{instance_id}");
        try {
            ListRocketMqMigrationTaskResponse response = client.listRocketMqMigrationTask(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

    credentials = BasicCredentials(ak, sk, projectId)

    client = RocketMQClient.new_builder() \
```

```
.with_credentials(credentials) \
.with_region(RocketMQRegion.value_of("<YOUR REGION>")) \
.build()

try:
    request = ListRocketMqMigrationTaskRequest()
    request.instance_id = "{instance_id}"
    response = client.list_rocket_mq_migration_task(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

```
package main

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

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

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

    client := rocketmq.NewRocketMQClient(
        rocketmq.RocketMQClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListRocketMqMigrationTaskRequest{}
    request.InstanceId = "{instance_id}"
    response, err := client.ListRocketMqMigrationTask(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

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

Status Codes

Status Code	Description
200	Returned status code.

Error Codes

See [Error Codes](#).

5.6.3 Deleting a Metadata Migration Task

Function

This API is used to delete a metadata migration task.

Calling Method

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

URI

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

Table 5-159 Path Parameters

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

Request Parameters

Table 5-160 Request body parameters

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

Response Parameters

Status code: 200

Returned status code.

None

Example Requests

This API is used to delete a metadata migration task.

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

Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

Java

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

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

public class DeleteRocketMqMigrationTaskSolution {

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

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

        RocketMQClient client = RocketMQClient.newBuilder()
            .withCredential(auth)
            .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))
            .build();
        DeleteRocketMqMigrationTaskRequest request = new DeleteRocketMqMigrationTaskRequest();
        request.withInstanceId="{{instance_id}}";
        MetadataDeleteReq body = new MetadataDeleteReq();
        request.withBody(body);
        try {
            DeleteRocketMqMigrationTaskResponse response = client.deleteRocketMqMigrationTask(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
        }
    }
}
```

```
        System.out.println(e.getRequestId());
        System.out.println(e.getErrorCode());
        System.out.println(e.getErrorMsg());
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

    credentials = BasicCredentials(ak, sk, projectId)

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

    try:
        request = DeleteRocketMqMigrationTaskRequest()
        request.instance_id = "{instance_id}"
        request.body = MetadataDeleteReq(
        )
        response = client.delete_rocket_mq_migration_task(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

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

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

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

client := rocketmq.NewRocketMQClient(
    rocketmq.RocketMQClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>").
        WithCredential(auth).
        Build())

request := &model.DeleteRocketMqMigrationTaskRequest{}
request.InstanceId = "{instance_id}"
request.Body = &model.MetadataDeleteReq{
}
response, err := client.DeleteRocketMqMigrationTask(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
```

More

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

Status Codes

Status Code	Description
200	Returned status code.

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.

Calling Method

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

URI

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

Table 5-161 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Parameter description: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Value range: N/A Default value: N/A
instance_id	Yes	String	Parameter description: Instance ID. To obtain it, log in to the RocketMQ console and find the instance ID on the RocketMQ instance details page. Constraints: N/A Value range: N/A Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 5-162 Response body parameters

Parameter	Type	Description
total	Number	Parameter description: Total. Value range: N/A
next_offset	Integer	Parameter description: Offset of the next page. Value range: N/A
previous_offset	Integer	Parameter description: Offset of the previous page. Value range: N/A
rocketmq_configs	Array of RocketMQConfig Resp objects	Parameter description: RocketMQ configuration.

Table 5-163 RocketMQConfigResp

Parameter	Type	Description
name	String	Parameter description: RocketMQ configuration name. Value range: N/A
value	String	Parameter description: RocketMQ configuration current value. Value range: N/A
config_type	String	Parameter description: RocketMQ configuration type. Value range: <ul style="list-style-type: none"> • dynamic • static

Parameter	Type	Description
default_value	String	Parameter description: RocketMQ configuration default value. Value range: N/A
valid_values	String	Parameter description: RocketMQ configuration value range. Value range: N/A
value_type	String	Parameter description: RocketMQ configuration value type. Value range: <ul style="list-style-type: none">• integer• boolean

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"  
    } ]  
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

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

```
import com.huaweicloud.sdk.rocketmq.v2.region.RocketMQRegion;
import com.huaweicloud.sdk.rocketmq.v2.*;
import com.huaweicloud.sdk.rocketmq.v2.model.*;

public class ShowRocketMqConfigsSolution {

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

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

        RocketMQClient client = RocketMQClient.newBuilder()
            .withCredential(auth)
            .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowRocketMqConfigsRequest request = new ShowRocketMqConfigsRequest();
        request.withInstanceId("{instance_id}");
        try {
            ShowRocketMqConfigsResponse response = client.showRocketMqConfigs(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

    credentials = BasicCredentials(ak, sk, projectId)

    client = RocketMQClient.new_builder() \
        .with_credentials(credentials) \
```

```
.with_region(RocketMQRegion.value_of("<YOUR REGION>")) \  
.build()  
  
try:  
    request = ShowRocketMqConfigsRequest()  
    request.instance_id = "{instance_id}"  
    response = client.show_rocket_mq_configs(request)  
    print(response)  
except exceptions.ClientRequestException as e:  
    print(e.status_code)  
    print(e.request_id)  
    print(e.error_code)  
    print(e.error_msg)
```

Go

```
package main  
  
import (  
    "fmt"  
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"  
    rocketmq "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/rocketmq/v2"  
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/rocketmq/v2/model"  
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/rocketmq/v2/region"  
)  
  
func main() {  
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    // variables and decrypted during use to ensure security.  
    // In this example, AK and SK are stored in environment variables for authentication. Before running this  
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak := os.Getenv("CLOUD_SDK_AK")  
    sk := os.Getenv("CLOUD_SDK_SK")  
    projectId := "{project_id}"  
  
    auth := basic.NewCredentialsBuilder().  
        WithAk(ak).  
        WithSk(sk).  
        WithProjectId(projectId).  
        Build()  
  
    client := rocketmq.NewRocketMQClient(  
        rocketmq.RocketMQClientBuilder().  
            WithRegion(region.ValueOf("<YOUR REGION>")).  
            WithCredential(auth).  
            Build())  
  
    request := &model.ShowRocketMqConfigsRequest{}  
    request.InstanceId = "{instance_id}"  
    response, err := client.ShowRocketMqConfigs(request)  
    if err == nil {  
        fmt.Printf("%+v\n", response)  
    } else {  
        fmt.Println(err)  
    }  
}
```

More

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

Status Codes

Status Code	Description
200	Successful.

Error Codes

See [Error Codes](#).

5.7.2 Modifying RocketMQ Configurations

Function

This API is used to modify RocketMQ configurations.

Calling Method

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

URI

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

Table 5-164 Path Parameters

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

Request Parameters

Table 5-165 Request body parameters

Parameter	Mandatory	Type	Description
rocketmq_configs	No	Array of RocketMQConfigReq objects	RocketMQ configuration.

Table 5-166 RocketMQConfigReq

Parameter	Mandatory	Type	Description
name	No	String	RocketMQ configuration name.
value	No	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

SDK Sample Code

The SDK sample code is as follows.

Java

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

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

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

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

```
public class UpdateRocketMqConfigsSolution {  
  
    public static void main(String[] args) {  
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great  
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or  
        // environment variables and decrypted during use to ensure security.  
        // In this example, AK and SK are stored in environment variables for authentication. Before running  
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
        String ak = System.getenv("CLOUD_SDK_AK");  
        String sk = System.getenv("CLOUD_SDK_SK");  
        String projectId = "{project_id}";  
  
        ICredential auth = new BasicCredentials()  
            .withProjectId(projectId)  
            .withAk(ak)  
            .withSk(sk);  
  
        RocketMQClient client = RocketMQClient.newBuilder()  
            .withCredential(auth)  
            .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))  
            .build();  
        UpdateRocketMqConfigsRequest request = new UpdateRocketMqConfigsRequest();  
        request.withInstanceId("{instance_id}");  
        ModifyConfigReq body = new ModifyConfigReq();  
        List<RocketMQConfigReq> listbodyRocketmqConfigs = new ArrayList<>();  
        listbodyRocketmqConfigs.add(  
            new RocketMQConfigReq()  
                .withName(RocketMQConfigReq.NameEnum.fromValue("fileReservedTime"))  
                .WithValue("72")  
        );  
        body.withRocketmqConfigs(listbodyRocketmqConfigs);  
        request.withBody(body);  
        try {  
            UpdateRocketMqConfigsResponse response = client.updateRocketMqConfigs(request);  
            System.out.println(response.toString());  
        } catch (ConnectionException e) {  
            e.printStackTrace();  
        } catch (RequestTimeoutException e) {  
            e.printStackTrace();  
        } catch (ServiceResponseException e) {  
            e.printStackTrace();  
            System.out.println(e.getHttpStatus());  
            System.out.println(e.getRequestId());  
            System.out.println(e.getErrorCode());  
            System.out.println(e.getErrorMsg());  
        }  
    }  
}
```

Python

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

```
# coding: utf-8  
  
import os  
from huaweicloudsdkcore.auth.credentials import BasicCredentials  
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion  
from huaweicloudsdkcore.exceptions import exceptions  
from huaweicloudsdkrocketmq.v2 import *  
  
if __name__ == "__main__":  
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    // variables and decrypted during use to ensure security.  
    # In this example, AK and SK are stored in environment variables for authentication. Before running this  
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak = os.environ["CLOUD_SDK_AK"]
```

```
sk = os.environ["CLOUD_SDK_SK"]
projectId = "{project_id}"

credentials = BasicCredentials(ak, sk, projectId)

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

try:
    request = UpdateRocketMqConfigsRequest()
    request.instance_id = "{instance_id}"
    listRocketmqConfigsbody = [
        RocketMQConfigReq(
            name="fileReservedTime",
            value="72"
        )
    ]
    request.body = ModifyConfigReq(
        rocketmq_configs=listRocketmqConfigsbody
    )
    response = client.update_rocket_mq_configs(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

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

```
package main

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

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

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

    client := rocketmq.NewRocketMQClient(
        rocketmq.RocketMQClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())
}

request := &model.UpdateRocketMqConfigsRequest{}
request.InstanceId = "{instance_id}"
```

```
nameRocketmqConfigs:= model.GetRocketMqConfigReqNameEnum().FILE_RESERVED_TIME
valueRocketmqConfigs:= "72"
var listRocketmqConfigsbody = []model.RocketMqConfigReq{
    {
        Name: &nameRocketmqConfigs,
        Value: &valueRocketmqConfigs,
    },
}
request.Body = &model.ModifyConfigReq{
    RocketmqConfigs: &listRocketmqConfigsbody,
}
response, err := client.UpdateRocketMqConfigs(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
```

More

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

Status Codes

Status Code	Description
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.

Calling Method

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

URI

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

Table 5-167 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	<p>Parameter description: Project ID. For details, see Obtaining a Project ID.</p> <p>Constraints: N/A</p> <p>Value range: N/A</p> <p>Default value: N/A</p>
instance_id	Yes	String	<p>Parameter description: Instance ID. To obtain it, log in to the RocketMQ console and find the instance ID on the RocketMQ instance details page.</p> <p>Constraints: N/A</p> <p>Value range: N/A</p> <p>Default value: N/A</p>

Request Parameters

Table 5-168 Request body parameters

Parameter	Mandatory	Type	Description
action	No	String	<p>Parameter description: Operation.</p> <p>Constraints: N/A</p> <p>Value range:</p> <ul style="list-style-type: none"> • create: Tags are created. • delete: Tags are deleted. <p>Default value: N/A</p>

Parameter	Mandatory	Type	Description
tags	No	Array of TagEntity objects	<p>Parameter description: Tag list.</p> <p>Constraints: A RocketMQ instance can have a maximum of 20 tags.</p>

Table 5-169 TagEntity

Parameter	Mandatory	Type	Description
key	No	String	<p>Definition: Tag key.</p> <p>Constraints:</p> <ul style="list-style-type: none"> • Cannot be left blank. • Must be unique for the same instance. • Can contain 1 to 128 characters. • Can contain letters, digits, spaces, and special characters _.:=-@ • Cannot start with sys • Cannot start or end with a space. <p>Range: N/A</p> <p>Default Value: N/A</p>

Parameter	Mandatory	Type	Description
value	No	String	<p>Definition: Tag value.</p> <p>Constraints:</p> <ul style="list-style-type: none">• Can contain 0 to 255 characters.• Can contain letters, digits, spaces, and special characters _:=+-@• Cannot start or end with a space. <p>Range: N/A</p> <p>Default Value: N/A</p>

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

SDK Sample Code

The SDK sample code is as follows.

Java

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

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

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

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

public class BatchCreateOrDeleteRocketmqTagSolution {

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

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

        RocketMQClient client = RocketMQClient.newBuilder()
            .withCredential(auth)
            .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))
            .build();
        BatchCreateOrDeleteRocketmqTagRequest request = new BatchCreateOrDeleteRocketmqTagRequest();
        request.withInstanceId("{instance_id}");
        BatchCreateOrDeleteTagReq body = new BatchCreateOrDeleteTagReq();
        List<TagEntity> listbodyTags = new ArrayList<>();
        listbodyTags.add(
            new TagEntity()
                .withKey("key1")
                .withValue("value1")
        );
        listbodyTags.add(
            new TagEntity()
                .withKey("key2")
                .withValue("value2")
        );
        body.withTags(listbodyTags);
        body.addAction(BatchCreateOrDeleteTagReq.ActionEnum.fromValue("create"));
        request.withBody(body);
        try {
            BatchCreateOrDeleteRocketmqTagResponse response =
            client.batchCreateOrDeleteRocketmqTag(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
        }
    }
}
```

```
        System.out.println(e.getErrorCode());
        System.out.println(e.getErrorMsg());
    }
}
```

Python

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

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

    credentials = BasicCredentials(ak, sk, projectId)

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

    try:
        request = BatchCreateOrDeleteRocketmqTagRequest()
        request.instance_id = "{instance_id}"
        listTagsbody = [
            TagEntity(
                key="key1",
                value="value1"
            ),
            TagEntity(
                key="key2",
                value="value2"
            )
        ]
        request.body = BatchCreateOrDeleteTagReq(
            tags=listTagsbody,
            action="create"
        )
        response = client.batch_create_or_delete_rocketmq_tag(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

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

```
package main
```

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

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

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

    client := rocketmq.NewRocketMQClient(
        rocketmq.RocketMQClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>").
            WithCredential(auth).
            Build()))

    request := &model.BatchCreateOrDeleteRocketmqTagRequest{}
    request.InstanceId = "{instance_id}"
    keyTags:= "key1"
    valueTags:= "value1"
    keyTags1:= "key2"
    valueTags1:= "value2"
    var listTagsbody = []model.TagEntity{
        {
            Key: &keyTags,
            Value: &valueTags,
        },
        {
            Key: &keyTags1,
            Value: &valueTags1,
        },
    }
    actionBatchCreateOrDeleteTagReq:= model.GetBatchCreateOrDeleteTagReqActionEnum().CREATE
    request.Body = &model.BatchCreateOrDeleteTagReq{
        Tags: &listTagsbody,
        Action: &actionBatchCreateOrDeleteTagReq,
    }
    response, err := client.BatchCreateOrDeleteRocketmqTag(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

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

Status Codes

Status Code	Description
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.

Calling Method

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

URI

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

Table 5-170 Path Parameters

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

Request Parameters

None

Response Parameters

Status code: 200

Table 5-171 Response body parameters

Parameter	Type	Description
total	Number	Total.
next_offset	Integer	Offset of the next page.

Parameter	Type	Description
previous_offset	Integer	Offset of the previous page.
tags	Array of TagEntity objects	Tag list.

Table 5-172 TagEntity

Parameter	Type	Description
key	String	<p>Definition: Tag key.</p> <p>Constraints:</p> <ul style="list-style-type: none"> • Cannot be left blank. • Must be unique for the same instance. • Can contain 1 to 128 characters. • Can contain letters, digits, spaces, and special characters _.:=-@ • Cannot start with sys • Cannot start or end with a space. <p>Range: N/A</p> <p>Default Value: N/A</p>
value	String	<p>Definition: Tag value.</p> <p>Constraints:</p> <ul style="list-style-type: none"> • Can contain 0 to 255 characters. • Can contain letters, digits, spaces, and special characters _.:=-@ • Cannot start or end with a space. <p>Range: N/A</p> <p>Default Value: N/A</p>

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"  
    } ]  
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;  
  
import com.huaweicloud.sdk.core.auth.ICredential;  
import com.huaweicloud.sdk.core.auth.BasicCredentials;  
import com.huaweicloud.sdk.core.exception.ConnectionException;  
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;  
import com.huaweicloud.sdk.core.exception.ServiceResponseException;  
import com.huaweicloud.sdk.rocketmq.v2.region.RocketMQRegion;  
import com.huaweicloud.sdk.rocketmq.v2.*;  
import com.huaweicloud.sdk.rocketmq.v2.model.*;  
  
public class ShowRocketmqTagsSolution {  
  
    public static void main(String[] args) {  
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great  
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or  
        // environment variables and decrypted during use to ensure security.  
        // In this example, AK and SK are stored in environment variables for authentication. Before running  
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
        String ak = System.getenv("CLOUD_SDK_AK");  
        String sk = System.getenv("CLOUD_SDK_SK");  
        String projectId = "{project_id}";  
  
        ICredential auth = new BasicCredentials()  
            .withProjectId(projectId)  
            .withAk(ak)  
            .withSk(sk);  
  
        RocketMQClient client = RocketMQClient.newBuilder()  
            .withCredential(auth)  
            .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))  
            .build();  
        ShowRocketmqTagsRequest request = new ShowRocketmqTagsRequest();  
        request.withInstanceId("{instance_id}");  
        try {  
            ShowRocketmqTagsResponse response = client.showRocketmqTags(request);  
            System.out.println(response.toString());  
        } catch (ConnectionException e) {  
            e.printStackTrace();  
        } catch (RequestTimeoutException e) {  
            e.printStackTrace();  
        }  
    }  
}
```

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

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

    credentials = BasicCredentials(ak, sk, projectId)

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

    try:
        request = ShowRocketmqTagsRequest()
        request.instance_id = "{instance_id}"
        response = client.show_rocketmq_tags(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

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

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

```
auth := basic.NewCredentialsBuilder().  
    WithAk(ak).  
    WithSk(sk).  
    WithProjectId(projectId).  
    Build()  
  
client := rocketmq.NewRocketMQClient(  
    rocketmq.RocketMQClientBuilder().  
        WithRegion(region.ValueOf("<YOUR REGION>")).  
        WithCredential(auth).  
        Build())  
  
request := &model.ShowRocketmqTagsRequest{}  
request.InstanceId = "{instance_id}"  
response, err := client.ShowRocketmqTags(request)  
if err == nil {  
    fmt.Printf("%+v\n", response)  
} else {  
    fmt.Println(err)  
}  
}
```

More

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

Status Codes

Status Code	Description
200	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.

Calling Method

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

URI

GET /v2/{project_id}/rocketmq/tags

Table 5-173 Path Parameters

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

Request Parameters

None

Response Parameters

Status code: 200

Table 5-174 Response body parameters

Parameter	Type	Description
total	Number	<p>Parameter description: Total number.</p> <p>Value range: N/A</p>
next_offset	Integer	<p>Parameter description: Offset of the next page.</p> <p>Value range: N/A</p>
previous_offset	Integer	<p>Parameter description: Offset of the previous page.</p> <p>Value range: N/A</p>
tags	Array of TagMultiValueEntity objects	Parameter description: Tag list.

Table 5-175 TagMultyValueEntity

Parameter	Type	Description
key	String	Parameter description: Tag key. Value range: N/A
values	Array of strings	Parameter description: 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" ]
  } ]
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

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

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

public class ShowRocketmqProjectTagsSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
```

security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.

```
// In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
String ak = System.getenv("CLOUD_SDK_AK");
String sk = System.getenv("CLOUD_SDK_SK");
String projectId = "{project_id}";

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

RocketMQClient client = RocketMQClient.newBuilder()
    .withCredential(auth)
    .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))
    .build();
ShowRocketmqProjectTagsRequest request = new ShowRocketmqProjectTagsRequest();
try {
    ShowRocketmqProjectTagsResponse response = client.showRocketmqProjectTags(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

    credentials = BasicCredentials(ak, sk, projectId)

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

    try:
        request = ShowRocketmqProjectTagsRequest()
        response = client.show_rocketmq_project_tags(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
```

```
print(e.error_code)
print(e.error_msg)
```

Go

```
package main

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

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

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

    client := rocketmq.NewRocketMQClient(
        rocketmq.RocketMQClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())
}

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

More

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

Status Codes

Status Code	Description
200	The project tags are queried successfully.

Error Codes

See [Error Codes](#).

5.9 Diagnosing an Instance

5.9.1 Creating an Instance Diagnosis Task

Function

This API is used to create an instance diagnosis task.

Calling Method

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

URI

POST /v2/{engine}/{project_id}/instances/{instance_id}/diagnosis

Table 5-176 Path Parameters

Parameter	Mandatory	Type	Description
engine	Yes	String	Engine.
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Range: N/A Default Value: N/A
instance_id	Yes	String	Definition: Instance ID. To obtain it, log in to the RocketMQ console and find the instance ID on the RocketMQ instance details page. Constraints: N/A Range: N/A Default Value: N/A

Request Parameters

Table 5-177 Request body parameters

Parameter	Mandatory	Type	Description
group_name	No	String	Definition: Consumer group name. Constraints: N/A Range: N/A Default Value: N/A
node_id_list	No	Array of strings	Definition: Node ID list. Constraints: N/A Range: N/A Default Value: N/A

Response Parameters

Status code: 200

Table 5-178 Response body parameters

Parameter	Type	Description
report_id	String	Definition: Report ID. Range: N/A

Example Requests

Creating an instance diagnosis task

```
POST https://{endpoint}/v2/{engine}/{project_id}/instances/{instance_id}/diagnosis
{
    "report_id" : "b00a070e-75e0-4463-b53e-fbc29dcff951"
}
```

Example Responses

Status code: 200

success

```
{  
    "group_name": "test",  
    "node_id_list": []  
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

Creating an instance diagnosis task

```
package com.huaweicloud.sdk.test;  
  
import com.huaweicloud.sdk.core.auth.ICredential;  
import com.huaweicloud.sdk.core.auth.BasicCredentials;  
import com.huaweicloud.sdk.core.exception.ConnectionException;  
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;  
import com.huaweicloud.sdk.core.exception.ServiceResponseException;  
import com.huaweicloud.sdk.rocketmq.v2.region.RocketMQRegion;  
import com.huaweicloud.sdk.rocketmq.v2.*;  
import com.huaweicloud.sdk.rocketmq.v2.model.*;  
  
public class CreateDiagnosisTaskSolution {  
  
    public static void main(String[] args) {  
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great  
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or  
        // environment variables and decrypted during use to ensure security.  
        // In this example, AK and SK are stored in environment variables for authentication. Before running  
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
        String ak = System.getenv("CLOUD_SDK_AK");  
        String sk = System.getenv("CLOUD_SDK_SK");  
        String projectId = "{project_id}";  
  
        ICredential auth = new BasicCredentials()  
            .withProjectId(projectId)  
            .withAk(ak)  
            .withSk(sk);  
  
        RocketMQClient client = RocketMQClient.newBuilder()  
            .withCredential(auth)  
            .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))  
            .build();  
        CreateDiagnosisTaskRequest request = new CreateDiagnosisTaskRequest();  
        request.withEngine("{engine}");  
        request.withInstanceId("{instance_id}");  
        body.withDiagnosisRep("{\"report_id\":\"b00a070e-75e0-4463-b53e-fbc29dcff951\"}");  
        request.withBody(listDiagnosisRepDiagnosisRep);  
        try {  
            CreateDiagnosisTaskResponse response = client.createDiagnosisTask(request);  
            System.out.println(response.toString());  
        } catch (ConnectionException e) {  
            e.printStackTrace();  
        } catch (RequestTimeoutException e) {  
            e.printStackTrace();  
        } catch (ServiceResponseException e) {  
            e.printStackTrace();  
            System.out.println(e.getHttpStatus());  
        }  
    }  
}
```

```
        System.out.println(e.getRequestId());
        System.out.println(e.getErrorCode());
        System.out.println(e.getErrorMsg());
    }
}
```

Python

Creating an instance diagnosis task

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

    credentials = BasicCredentials(ak, sk, projectId)

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

    try:
        request = CreateDiagnosisTaskRequest()
        request.engine = "{engine}"
        request.instance_id = "{instance_id}"
        request.body = listDiagnosisRepDiagnosisRep
        response = client.create_diagnosis_task(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

Creating an instance diagnosis task

```
package main

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

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

```
example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
ak := os.Getenv("CLOUD_SDK_AK")
sk := os.Getenv("CLOUD_SDK_SK")
projectId := "{project_id}"

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

client := rocketmq.NewRocketMQClient(
    rocketmq.RocketMQClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>").
        WithCredential(auth).
        Build())

request := &model.CreateDiagnosisTaskRequest{}
request.Engine = "{engine}"
request.InstanceId = "{instance_id}"
var diagnosisRepDiagnosisRep interface{} = "{\"report_id\":\"b00a070e-75e0-4463-b53e-fbc29dcff951\"}"
request.Body = listDiagnosisRepDiagnosisRep
response, err := client.CreateDiagnosisTask(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
```

More

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

Status Codes

Status Code	Description
200	success

Error Codes

See [Error Codes](#).

5.9.2 Querying an Instance Diagnosis Report List

Function

This API is used to query an instance diagnosis report list.

Calling Method

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

URI

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

Table 5-179 Path Parameters

Parameter	Mandatory	Type	Description
engine	Yes	String	Definition: Engine. Constraints: N/A Range: N/A Default Value: N/A
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Range: N/A Default Value: N/A
instance_id	Yes	String	Definition: Instance ID. To obtain it, log in to the RocketMQ console and find the instance ID on the RocketMQ instance details page. Constraints: N/A Range: N/A Default Value: N/A

Table 5-180 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition: Offset where the query starts. Constraints: N/A Range: ≥ 0 Default Value: N/A
limit	No	Integer	Definition: Number of records to query. Constraints: N/A Range: N/A Default Value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 5-181 Response body parameters

Parameter	Type	Description
diagnosis_report_list	Array of DiagnosisReport Resp objects	Definition: Diagnosis report list. Range: N/A

Table 5-182 DiagnosisReportResp

Parameter	Type	Description
report_id	String	Definition: Report ID. Range: N/A
group_name	String	Definition: Consumer group name. Range: N/A
consumer_nums	Integer	Definition: Number of consumers. Range: N/A
status	String	Definition: Status. Range: N/A
creat_at	Long	Definition: Generation time. Range: N/A
abnormal_item_sum	Integer	Definition: Number of abnormal items. Range: N/A
faulted_node_sum	Integer	Definition: Number of abnormal nodes. Range: N/A

Example Requests

Querying an instance diagnosis report list

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

Example Responses

Status code: 200

success

```
{  
    "diagnosis_report_list" : {  
        "report_id" : "b00a070e-75e0-4463-b53e-fbc29dcff951",  
        "status" : "finished",  
        "group_name" : "test",  
        "created_at" : "2025-05-28 11:25:58.477",  
        "abnormal_item_sum" : 0,  
        "faulted_node_sum" : 0  
    },  
    "total_num" : 1  
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;  
  
import com.huaweicloud.sdk.core.auth.ICredential;  
import com.huaweicloud.sdk.core.auth.BasicCredentials;  
import com.huaweicloud.sdk.core.exception.ConnectionException;  
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;  
import com.huaweicloud.sdk.core.exception.ServiceResponseException;  
import com.huaweicloud.sdk.rocketmq.v2.region.RocketMQRegion;  
import com.huaweicloud.sdk.rocketmq.v2.*;  
import com.huaweicloud.sdk.rocketmq.v2.model.*;  
  
public class ListDiagnosisReportsSolution {  
  
    public static void main(String[] args) {  
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great  
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or  
        // environment variables and decrypted during use to ensure security.  
        // In this example, AK and SK are stored in environment variables for authentication. Before running  
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
        String ak = System.getenv("CLOUD_SDK_AK");  
        String sk = System.getenv("CLOUD_SDK_SK");  
        String projectId = "{project_id}";  
  
        ICredential auth = new BasicCredentials()  
            .withProjectId(projectId)  
            .withAk(ak)  
            .withSk(sk);  
  
        RocketMQClient client = RocketMQClient.newBuilder()  
            .withCredential(auth)  
            .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))  
            .build();  
        ListDiagnosisReportsRequest request = new ListDiagnosisReportsRequest();  
        request.withEngine("{engine}");  
        request.withInstanceId("{instance_id}");  
        try {  
            ListDiagnosisReportsResponse response = client.listDiagnosisReports(request);  
            System.out.println(response.toString());  
        } catch (ConnectionException e) {  
            e.printStackTrace();  
        } catch (RequestTimeoutException e) {  
            e.printStackTrace();  
        } catch (ServiceResponseException e) {  
            e.printStackTrace();  
            System.out.println(e.getHttpStatus());  
            System.out.println(e.getRequestId());  
            System.out.println(e.getErrorCode());  
        }  
    }  
}
```

```
        System.out.println(e.getErrorMsg());
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

    credentials = BasicCredentials(ak, sk, projectId)

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

    try:
        request = ListDiagnosisReportsRequest()
        request.engine = "{engine}"
        request.instance_id = "{instance_id}"
        response = client.list_diagnosis_reports(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

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

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

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

```
WithProjectId(projectId).
Build()

client := rocketmq.NewRocketMQClient(
    rocketmq.RocketMQClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.ListDiagnosisReportsRequest{}
request.Engine = "{engine}"
request.InstanceId = "{instance_id}"
response, err := client.ListDiagnosisReports(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
```

More

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

Status Codes

Status Code	Description
200	success

Error Codes

See [Error Codes](#).

5.9.3 Deleting Instance Diagnosis Records in Batches

Function

This API is used to delete instance diagnosis records in batches.

Calling Method

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

URI

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

Table 5-183 Path Parameters

Parameter	Mandatory	Type	Description
engine	Yes	String	<p>Definition: Engine.</p> <p>Constraints: N/A</p> <p>Range: N/A</p> <p>Default Value: N/A</p>
project_id	Yes	String	<p>Definition: Project ID. For details, see Obtaining a Project ID.</p> <p>Constraints: N/A</p> <p>Range: N/A</p> <p>Default Value: N/A</p>
instance_id	Yes	String	<p>Definition: Instance ID. To obtain it, log in to the RocketMQ console and find the instance ID on the RocketMQ instance details page.</p> <p>Constraints: N/A</p> <p>Range: N/A</p> <p>Default Value: N/A</p>

Request Parameters

Table 5-184 Request body parameters

Parameter	Mandatory	Type	Description
report_id_list	No	Array of strings	Definition: Diagnosis report ID list. Constraints: N/A Range: N/A Default Value: N/A

Response Parameters

Status code: 200

Table 5-185 Response body parameters

Parameter	Type	Description
report_id_list	Array of strings	Definition: Diagnosis report ID list. Range: N/A

Example Requests

Deleting instance diagnosis records in batches

```
DELETE https://{endpoint}/v2/{engine}/{project_id}/instances/{instance_id}/diagnosis
{
    "report_id_list" : [ "a68bb70a-ac92-4047-b8a6-30612b521624" ]
}
```

Example Responses

Status code: 200

success

```
{
    "report_id_list" : [ "a68bb70a-ac92-4047-b8a6-30612b521624" ]
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

Deleting instance diagnosis records in batches

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

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

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

public class BatchDeleteDiagnosisReportSolution {

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

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

        RocketMQClient client = RocketMQClient.newBuilder()
            .withCredential(auth)
            .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))
            .build();
        BatchDeleteDiagnosisReportRequest request = new BatchDeleteDiagnosisReportRequest();
        request.withEngine("{engine}");
        request.withInstanceId("{instance_id}");
        BatchDeleteDiagnosisReportReq body = new BatchDeleteDiagnosisReportReq();
        List<String> listbodyReportIdList = new ArrayList<>();
        listbodyReportIdList.add("a68bb70a-ac92-4047-b8a6-30612b521624");
        body.withReportIdList(listbodyReportIdList);
        request.withBody(body);
        try {
            BatchDeleteDiagnosisReportResponse response = client.batchDeleteDiagnosisReport(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatus());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

Deleting instance diagnosis records in batches

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

    credentials = BasicCredentials(ak, sk, projectId)

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

    try:
        request = BatchDeleteDiagnosisReportRequest()
        request.engine = "{engine}"
        request.instance_id = "{instance_id}"
        listReportIdListbody = [
            "a68bb70a-ac92-4047-b8a6-30612b521624"
        ]
        request.body = BatchDeleteDiagnosisReportReq(
            report_id_list=listReportIdListbody
        )
        response = client.batch_delete_diagnosis_report(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

Deleting instance diagnosis records in batches

```
package main

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

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

```
sk := os.Getenv("CLOUD_SDK_SK")
projectId := "{project_id}"

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

client := rocketmq.NewRocketMQClient(
    rocketmq.RocketMQClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).  

        WithCredential(auth).
        Build())

request := &model.BatchDeleteDiagnosisReportRequest{}
request.Engine = "{engine}"
request.InstanceId = "{instance_id}"
var listReportIdListbody = []string{
    "a68bb70a-ac92-4047-b8a6-30612b521624",
}
request.Body = &model.BatchDeleteDiagnosisReportReq{
    ReportIdList: &listReportIdListbody,
}
response, err := client.BatchDeleteDiagnosisReport(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
```

More

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

Status Codes

Status Code	Description
200	success

Error Codes

See [Error Codes](#).

5.9.4 Querying an Instance Diagnosis Report

Function

This API is used to query an instance diagnosis report.

Calling Method

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

URI

GET /v2/{engine}/{project_id}/diagnosis/{report_id}

Table 5-186 Path Parameters

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

Request Parameters

None

Response Parameters

Status code: 200

Table 5-187 Response body parameters

Parameter	Type	Description
report_id	String	Definition: Report ID. Range: N/A
group_name	String	Definition: Consumer group name. Range: N/A
consumer_nums	Integer	Definition: Number of consumers. Range: N/A
status	String	Definition: Status. Range: N/A
creat_at	Long	Definition: Generation time. Range: N/A
abnormal_item_sum	Integer	Definition: Number of abnormal items. Range: N/A
faulted_node_sum	Integer	Definition: Number of abnormal nodes. Range: N/A
online	Boolean	Definition: Online or not. Range: <ul style="list-style-type: none"> • true: Yes • false: No

Parameter	Type	Description
message_accumulation	Integer	Definition: Number of stacked messages. Range: N/A
subscription_consistency	Boolean	Definition: Subscription consistency. Range: <ul style="list-style-type: none">• true: Yes• false: No
subscriptions	Array of strings	Definition: Subscriber list. Range: N/A
diagnosis_node_report_list	Array of strings	Definition: Diagnosis node report list. Range: N/A

Example Requests

Querying an instance diagnosis report

GET https://{{endpoint}}/v2/{{engine}}/{{project_id}}/diagnosis/{{report_id}}

Example Responses

Status code: 200

success

```
{  
    "report_id": "3019dd35-361c-4631-a8d8-3578c0a7d102",  
    "group_name": "test",  
    "consumer_nums": "0,",  
    "status": "finished",  
    "creat_at": 1748402725731,  
    "abnormal_item_sum": 1,  
    "faulted_node_sum": 0,  
    "online": false,  
    "message_accumulation": 0,  
    "subscription_consistency": true,  
    "subscriptions": [],  
    "diagnosis_node_report_list": []  
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

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

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

public class ShowDiagnosisReportSolution {

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

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

        RocketMQClient client = RocketMQClient.newBuilder()
            .withCredential(auth)
            .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowDiagnosisReportRequest request = new ShowDiagnosisReportRequest();
        request.withEngine("{engine}");
        request.withReportId("{report_id}");
        try {
            ShowDiagnosisReportResponse response = client.showDiagnosisReport(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatus());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
```

```
# In this example, AK and SK are stored in environment variables for authentication. Before running this
example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
ak = os.environ["CLOUD_SDK_AK"]
sk = os.environ["CLOUD_SDK_SK"]
projectId = "{project_id}"

credentials = BasicCredentials(ak, sk, projectId)

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

try:
    request = ShowDiagnosisReportRequest()
    request.engine = "{engine}"
    request.report_id = "{report_id}"
    response = client.show_diagnosis_report(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

```
package main

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

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

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

    client := rocketmq.NewRocketMQClient(
        rocketmq.RocketMQClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowDiagnosisReportRequest{}
    request.Engine = "{engine}"
    request.ReportId = "{report_id}"
    response, err := client.ShowDiagnosisReport(request)
    if err == nil {
        fmt.Printf("%#v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

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

Status Codes

Status Code	Description
200	success

Error Codes

See [Error Codes](#).

5.9.5 Querying Stack Information

Function

This API is used to query stack information.

Calling Method

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

URI

GET /v2/{engine}/{project_id}/diagnosis/stack/{stack_id}

Table 5-188 Path Parameters

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

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

Request Parameters

None

Response Parameters

Status code: 200

Table 5-189 Response body parameters

Parameter	Type	Description
thread_name	String	<p>Definition: Thread name.</p> <p>Range: N/A</p>
stack	String	<p>Definition: Stack information.</p> <p>Range: N/A</p>

Example Requests

Querying stack information

```
GET https://[endpoint]/v2/{engine}/{project_id}/diagnosis/stack/{stack_id}
```

Example Responses

Status code: 200

success

```
{  
    "thread_name": "name",  
    "stack": "xxxxxxxxxxxxxx"  
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

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

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

public class ShowDiagnosisStackSolution {

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

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

        RocketMQClient client = RocketMQClient.newBuilder()
            .withCredential(auth)
            .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowDiagnosisStackRequest request = new ShowDiagnosisStackRequest();
        request.withEngine("{engine}");
        request.withStackId("{stack_id}");
        try {
            ShowDiagnosisStackResponse response = client.showDiagnosisStack(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        }
    }
}
```

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

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

    credentials = BasicCredentials(ak, sk, projectId)

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

    try:
        request = ShowDiagnosisStackRequest()
        request.engine = "{engine}"
        request.stack_id = "{stack_id}"
        response = client.show_diagnosis_stack(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

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

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

```
projectId := "{project_id}"

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

client := rocketmq.NewRocketMQClient(
    rocketmq.RocketMQClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>").
        WithCredential(auth).
        Build())

request := &model.ShowDiagnosisStackRequest{}
request.Engine = "{engine}"
request.StackId = "{stack_id}"
response, err := client.ShowDiagnosisStack(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
```

More

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

Status Codes

Status Code	Description
200	success

Error Codes

See [Error Codes](#).

5.10 Specification Modification Management

5.10.1 Querying Product Information for Instance Specification Modification

Function

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

Calling Method

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

URI

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

Table 5-190 Path Parameters

Parameter	Mandatory	Type	Description
engine	Yes	String	Message engine, which is rocketmq .
project_id	Yes	String	Project ID. For details, see Obtaining a Project ID .
instance_id	Yes	String	Instance ID.

Table 5-191 Query Parameters

Parameter	Mandatory	Type	Description
type	No	String	Type of a product. advanced : DMS for RocketMQ
limit	No	Integer	Number of records to be queried.
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 5-192 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	Message engine.

Parameter	Type	Description
versions	Array of strings	Versions supported by the message engine.
products	Array of RocketMQExtendProductInfoEntity objects	Product information for specification modification.

Table 5-193 [RocketMQExtendProductInfoEntity](#)

Parameter	Type	Description
type	String	Instance type.
product_id	String	Product ID.
ecs_flavor_id	String	ECS flavor used by the product.
billing_code	String	Billing mode.
arch_types	Array of strings	Supported CPU architectures.
charging_mode	Array of strings	Supported billing modes.
ios	Array of RocketMQExtendProductIosEntity objects	Disk I/O information.
properties	RocketMQExtendProductPropertiesEntity 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.
support_features	Array of RocketMQProductSupportFeaturesEntity objects	Supported features.
qingtian_incompatible	Boolean	Indicates whether the instance is a QingTian instance.

Table 5-194 [RocketMQExtendProductIosEntity](#)

Parameter	Type	Description
io_spec	String	Storage I/O specification.

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

Table 5-195 RocketMQExtendProductPropertiesEntity

Parameter	Type	Description
max_broker	String	Maximum number of brokers.
max_topic_per_broker	String	Maximum number of topics that can be created on each broker.
max_consumer_per_broker	String	Maximum number of consumers of each broker.
max_storage_per_node	String	Maximum storage space of each broker. Unit: GB.
min_broker	String	Minimum number of brokers.
engine_versions	String	Version of the message engine.
min_storage_per_node	String	Minimum storage space of each broker. The unit is GB.
product_alias	String	Alias of product_id .

Table 5-196 RocketMQProductSupportFeaturesEntity

Parameter	Type	Description
name	String	Feature name.
properties	Map<String, String>	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" : "clusters.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
} ]
```

SDK Sample Code

The SDK sample code is as follows.

Java

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

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

public class ShowEngineInstanceExtendProductInfoSolution {

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

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

        RocketMQClient client = RocketMQClient.newBuilder()
```

```
.withCredential(auth)
.withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))
.build();
ShowEngineInstanceExtendProductInfoRequest request = new
ShowEngineInstanceExtendProductInfoRequest();
request.withEngine("{engine}");
request.withInstanceId("{instance_id}");
try {
    ShowEngineInstanceExtendProductInfoResponse response =
client.showEngineInstanceExtendProductInfo(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

    credentials = BasicCredentials(ak, sk, projectId)

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

    try:
        request = ShowEngineInstanceExtendProductInfoRequest()
        request.engine = "{engine}"
        request.instance_id = "{instance_id}"
        response = client.show_engine_instance_extend_product_info(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
```

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

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

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

    client := rocketmq.NewRocketMQClient(
        rocketmq.RocketMQClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())
}

request := &model.ShowEngineInstanceExtendProductInfoRequest{}
request.Engine = "{engine}"
request.InstanceId = "{instance_id}"
response, err := client.ShowEngineInstanceExtendProductInfo(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
}
```

More

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

Status Codes

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

Error Codes

See [Error Codes](#).

5.10.2 Modifying Instance Specifications

Function

This API is used to modify instance specifications.

Currently, this API can only be used to modify specifications of pay-per-use instances.

Calling Method

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

URI

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

Table 5-197 Path Parameters

Parameter	Mandatory	Type	Description
engine	Yes	String	Message engine, which is rocketmq .
project_id	Yes	String	Project ID. For details, see Obtaining a Project ID .
instance_id	Yes	String	Instance ID.

Request Parameters

Table 5-198 Request body parameters

Parameter	Mandatory	Type	Description
oper_type	Yes	String	Change type Value range: <ul style="list-style-type: none">• storage: Expand the storage without changing the broker quantity.• horizontal: Add brokers without changing the storage space of each broker.• vertical: Scale up the broker flavor without changing the broker quantity and storage.

Parameter	Mandatory	Type	Description
new_storage_space	No	Integer	<p>This parameter is valid and mandatory when oper_type is set to storage or horizontal. Instance storage space = Broker quantity × Storage space of each broker.</p> <ul style="list-style-type: none"> If oper_type is set to storage, the number of brokers remains unchanged, and the storage space of each broker must be expanded by at least 100 GB. If oper_type is set to horizontal, the storage space of each broker remains unchanged.
new_product_id	No	String	This parameter is valid and mandatory when oper_type is set to vertical .
new_broker_num	No	Integer	<p>Broker quantity.</p> <p>This parameter is mandatory when oper_type is set to horizontal.</p>
publicip_id	No	String	<p>ID of the EIP bound to the instance.</p> <p>Use commas (,) to separate multiple EIP IDs.</p> <p>This parameter is mandatory when oper_type is horizontal and public access is enabled.</p>

Response Parameters

Status code: 200

Table 5-199 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" : "c6.4u8g.cluster"
}
```

Example Responses

Status code: 200

Instance specifications modified.

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

SDK Sample Code

The SDK sample code is as follows.

Java

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

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

public class ResizeInstanceSolution {

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

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

        RocketMQClient client = RocketMQClient.newBuilder()
            .withCredential(auth)
            .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))
            .build();
        ResizeInstanceRequest request = new ResizeInstanceRequest();
        request.withEngine("{engine}");
        request.withInstanceId("{instance_id}");
        ResizeEngineInstanceReq body = new ResizeEngineInstanceReq();
        body.withNewProductId("c6.4u8g.cluster");
        body.withOperType("horizontal");
        request.withBody(body);
        try {
            ResizeInstanceResponse response = client.resizeInstance(request);
```

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

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

    credentials = BasicCredentials(ak, sk, projectId)

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

    try:
        request = ResizeInstanceRequest()
        request.engine = "{engine}"
        request.instance_id = "{instance_id}"
        request.body = ResizeEngineInstanceReq(
            new_product_id="c6.4u8g.cluster",
            oper_type="horizontal"
        )
        response = client.resize_instance(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

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

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

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

    client := rocketmq.NewRocketMQClient(
        rocketmq.RocketMQClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>").
            WithCredential(auth).
            Build())

    request := &model.ResizeInstanceRequest{}
    request.Engine = "{engine}"
    request.InstanceId = "{instance_id}"
    newProductIdResizeEngineInstanceReq:= "c6.4u8g.cluster"
    request.Body = &model.ResizeEngineInstanceReq{
        NewProductId: &newProductIdResizeEngineInstanceReq,
        OperType: "horizontal",
    }
    response, err := client.ResizeInstance(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

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

Status Codes

Status Code	Description
200	Instance specifications modified.

Error Codes

See [Error Codes](#).

5.11 Managing Instances

5.11.1 Querying an Instance Broker

Function

This API is used to query instance broker information.

Calling Method

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

URI

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

Table 5-200 Path Parameters

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

Request Parameters

None

Response Parameters

Status code: 200

Table 5-201 Response body parameters

Parameter	Type	Description
next_offset	Integer	Offset of the next page.
previous_offset	Integer	Offset of the previous page.
nodes	Array of NodeContextEntity objects	Background task ID.
total	Integer	Total.

Table 5-202 NodeContextEntity

Parameter	Type	Description
id	String	ID
broker_name	String	Broker name.
broker_id	Integer	Broker ID.
address	String	Address.
public_address	String	Public network address.

Example Requests

```
GET https://[endpoint]/v2/{project_id}/{engine}/instances/{instance_id}/nodes
```

Example Responses

Status code: 200

Successful

```
{  
    "total" : 2,  
    "next_offset" : -1,  
    "previous_offset" : -1,  
    "nodes" : [ {  
        "id" : "node-1",  
        "broker_name" : "broker-name-1",  
        "broker_id" : "broker-1",  
        "address" : "0.0.0.2",  
        "public_address" : "1.0.0.2"  
    }, {  
        "id" : "node-2",  
        "broker_name" : "broker-name-2",  
        "broker_id" : "broker-2",  
        "address" : "0.0.0.1",  
        "public_address" : "1.0.0.1"  
    } ]  
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;  
  
import com.huaweicloud.sdk.core.auth.ICredential;  
import com.huaweicloud.sdk.core.auth.BasicCredentials;  
import com.huaweicloud.sdk.core.exception.ConnectionException;  
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;  
import com.huaweicloud.sdk.core.exception.ServiceResponseException;  
import com.huaweicloud.sdk.rocketmq.v2.region.RocketMQRegion;  
import com.huaweicloud.sdk.rocketmq.v2.*;  
import com.huaweicloud.sdk.rocketmq.v2.model.*;  
  
public class ShowInstanceNodesSolution {
```

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

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

    RocketMQClient client = RocketMQClient.newBuilder()
        .withCredential(auth)
        .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))
        .build();
    ShowInstanceNodesRequest request = new ShowInstanceNodesRequest();
    request.withEngine("{engine}");
    request.withInstanceId("{instance_id}");
    try {
        ShowInstanceNodesResponse response = client.showInstanceNodes(request);
        System.out.println(response.toString());
    } catch (ConnectionException e) {
        e.printStackTrace();
    } catch (RequestTimeoutException e) {
        e.printStackTrace();
    } catch (ServiceResponseException e) {
        e.printStackTrace();
        System.out.println(e.getHttpStatusCode());
        System.out.println(e.getRequestId());
        System.out.println(e.getErrorCode());
        System.out.println(e.getErrorMsg());
    }
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

    credentials = BasicCredentials(ak, sk, projectId)

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

    try:
        request = ShowInstanceNodesRequest()
```

```
request.engine = "{engine}"
request.instance_id = "{instance_id}"
response = client.show_instance_nodes(request)
print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

```
package main

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

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

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

    client := rocketmq.NewRocketMQClient(
        rocketmq.RocketMQClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowInstanceNodesRequest{}
    request.Engine = "{engine}"
    request.InstanceId = "{instance_id}"
    response, err := client.ShowInstanceNodes(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

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

Status Codes

Status Code	Description
200	Successful

Error Codes

See [Error Codes](#).

5.11.2 Restarting an Instance

Function

This API is used to restart an instance.

Calling Method

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

URI

POST /v2/{project_id}/{engine}/instances/{instance_id}/restart

Table 5-203 Path Parameters

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

Request Parameters

Table 5-204 Request body parameters

Parameter	Type	Description
nodes	Array of strings	Node list.

Response Parameters

Status code: 200

Table 5-205 Response body parameters

Parameter	Type	Description
instance_id	String	Instance ID.
nodes	Array of strings	Node list.
result	String	Result.

Example Requests

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

Example Responses

Status code: 200

Successful

```
{  
    "instance_id": "68fdc9a8-805e-439d-8dd9-25adc1c58bf6",  
    "nodes": [ {  
        "name": "broker-0"  
    }, {  
        "name": "broker-1"  
    }, {  
        "name": "broker-2"  
    } ],  
    "result": "success"  
}
```

Status Codes

Status Code	Description
200	Successful

Error Codes

See [Error Codes](#).

5.11.3 Modifying SSL of an Instance

Function

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

Calling Method

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

URI

POST /v2/{project_id}/{engine}/instances/{instance_id}/plain-ssl-switch

Table 5-206 Path Parameters

Parameter	Mandatory	Type	Description
engine	Yes	String	Definition: Engine. Constraints: N/A Range: N/A Default Value: N/A
project_id	Yes	String	Definition: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Range: N/A Default Value: N/A
instance_id	Yes	String	Definition: Instance ID. To obtain it, log in to the RocketMQ console and find the instance ID on the RocketMQ instance details page. Constraints: N/A Range: N/A Default Value: N/A

Request Parameters

Table 5-207 Request body parameters

Parameter	Mandatory	Type	Description
tls_mode	No	String	Protocol mode.

Response Parameters

Status code: 200

Table 5-208 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"  
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;  
  
import com.huaweicloud.sdk.core.auth.ICredential;  
import com.huaweicloud.sdk.core.auth.BasicCredentials;  
import com.huaweicloud.sdk.core.exception.ConnectionException;  
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;  
import com.huaweicloud.sdk.core.exception.ServiceResponseException;  
import com.huaweicloud.sdk.rocketmq.v2.region.RocketMQRegion;  
import com.huaweicloud.sdk.rocketmq.v2.*;  
import com.huaweicloud.sdk.rocketmq.v2.model.*;
```

```
public class ModifyInstanceSslConfigSolution {  
  
    public static void main(String[] args) {  
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great  
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or  
        // environment variables and decrypted during use to ensure security.  
        // In this example, AK and SK are stored in environment variables for authentication. Before running  
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
        String ak = System.getenv("CLOUD_SDK_AK");  
        String sk = System.getenv("CLOUD_SDK_SK");  
        String projectId = "{project_id}";  
  
        ICredential auth = new BasicCredentials()  
            .withProjectId(projectId)  
            .withAk(ak)  
            .withSk(sk);  
  
        RocketMQClient client = RocketMQClient.newBuilder()  
            .withCredential(auth)  
            .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))  
            .build();  
        ModifyInstanceSslConfigRequest request = new ModifyInstanceSslConfigRequest();  
        request.withEngine("{engine}");  
        request.withInstanceId("{instance_id}");  
        PlainSSLswitchRep body = new PlainSSLswitchRep();  
        body.withTlsMode("ssl");  
        request.withBody(body);  
        try {  
            ModifyInstanceSslConfigResponse response = client.modifyInstanceSslConfig(request);  
            System.out.println(response.toString());  
        } catch (ConnectionException e) {  
            e.printStackTrace();  
        } catch (RequestTimeoutException e) {  
            e.printStackTrace();  
        } catch (ServiceResponseException e) {  
            e.printStackTrace();  
            System.out.println(e.getHttpStatusCode());  
            System.out.println(e.getRequestId());  
            System.out.println(e.getErrorCode());  
            System.out.println(e.getErrorMsg());  
        }  
    }  
}
```

Python

```
# coding: utf-8  
  
import os  
from huaweicloudsdkcore.auth.credentials import BasicCredentials  
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion  
from huaweicloudsdkcore.exceptions import exceptions  
from huaweicloudsdkrocketmq.v2 import *  
  
if __name__ == "__main__":  
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    // variables and decrypted during use to ensure security.  
    # In this example, AK and SK are stored in environment variables for authentication. Before running this  
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak = os.environ["CLOUD_SDK_AK"]  
    sk = os.environ["CLOUD_SDK_SK"]  
    projectId = "{project_id}"  
  
    credentials = BasicCredentials(ak, sk, projectId)  
  
    client = RocketMQClient.new_builder() \  
        .with_credentials(credentials) \  

```

```
.with_region(RocketMQRegion.value_of("<YOUR REGION>")) \  
.build()  
  
try:  
    request = ModifyInstanceSslConfigRequest()  
    request.engine = "{engine}"  
    request.instance_id = "{instance_id}"  
    request.body = PlainSSLSwitchRep(  
        tls_mode="ssl"  
    )  
    response = client.modify_instance_ssl_config(request)  
    print(response)  
except exceptions.ClientRequestException as e:  
    print(e.status_code)  
    print(e.request_id)  
    print(e.error_code)  
    print(e.error_msg)
```

Go

```
package main  
  
import (  
    "fmt"  
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"  
    rocketmq "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/rocketmq/v2"  
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/rocketmq/v2/model"  
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/rocketmq/v2/region"  
)  
  
func main() {  
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    // variables and decrypted during use to ensure security.  
    // In this example, AK and SK are stored in environment variables for authentication. Before running this  
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak := os.Getenv("CLOUD_SDK_AK")  
    sk := os.Getenv("CLOUD_SDK_SK")  
    projectId := "{project_id}"  
  
    auth := basic.NewCredentialsBuilder().  
        WithAk(ak).  
        WithSk(sk).  
        WithProjectId(projectId).  
        Build()  
  
    client := rocketmq.NewRocketMQClient(  
        rocketmq.RocketMQClientBuilder().  
            WithRegion(region.ValueOf("<YOUR REGION>")).  
            WithCredential(auth).  
            Build())  
  
    request := &model.ModifyInstanceSslConfigRequest{}  
    request.Engine = "{engine}"  
    request.InstanceId = "{instance_id}"  
    request.TlsModePlainSslSwitchRep = "ssl"  
    request.Body = &model.PlainSslSwitchRep{  
        TlsMode: &tlsModePlainSslSwitchRep,  
    }  
    response, err := client.ModifyInstanceSslConfig(request)  
    if err == nil {  
        fmt.Printf("%+v\n", response)  
    } else {  
        fmt.Println(err)  
    }  
}
```

More

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

Status Codes

Status Code	Description
200	success

Error Codes

See [Error Codes](#).

5.12 Managing Background Tasks

5.12.1 Querying a Specific Record from Background Tasks

Function

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

Calling Method

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

URI

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

Table 5-209 Path Parameters

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

Parameter	Mandatory	Type	Description
instance_id	Yes	String	<p>Definition: Instance ID. To obtain it, log in to the RocketMQ console and find the instance ID on the RocketMQ instance details page.</p> <p>Constraints: N/A</p> <p>Range: N/A</p> <p>Default Value: N/A</p>
task_id	Yes	String	<p>Definition: Task ID.</p> <p>Constraints: N/A</p> <p>Range: N/A</p> <p>Default Value: N/A</p>

Request Parameters

None

Response Parameters

Status code: 200

Table 5-210 Response body parameters

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

Table 5-211 tasks

Parameter	Type	Description
id	String	Definition: Task ID. Range: N/A
name	String	Definition: Task name. Range: N/A
user_name	String	Definition: Username. Range: N/A
user_id	String	Definition: User ID. Range: N/A
params	String	Definition: Task parameters. Range: N/A
status	String	Definition: Task status. Range: N/A
created_at	String	Definition: Start time. Range: N/A
updated_at	String	Definition: End time. Range: 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](#).

5.12.2 Deleting a Specific Record from Background Tasks

Function

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

Calling Method

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

URI

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

Table 5-212 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	<p>Definition: Project ID. For details, see Obtaining a Project ID.</p> <p>Constraints: N/A</p> <p>Range: N/A</p> <p>Default Value: N/A</p>
instance_id	Yes	String	<p>Definition: Instance ID. To obtain it, log in to the RocketMQ console and find the instance ID on the RocketMQ instance details page.</p> <p>Constraints: N/A</p> <p>Range: N/A</p> <p>Default Value: N/A</p>
task_id	Yes	String	<p>Definition: Task ID.</p> <p>Constraints: N/A</p> <p>Range: N/A</p> <p>Default Value: N/A</p>

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

SDK Sample Code

The SDK sample code is as follows.

Java

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

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

public class DeleteBackgroundTaskSolution {

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

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

        RocketMQClient client = RocketMQClient.newBuilder()
            .withCredential(auth)
            .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))
            .build();
        DeleteBackgroundTaskRequest request = new DeleteBackgroundTaskRequest();
        request.withInstanceId="{{instance_id}}";
        request.withTaskId="{{task_id}}";
        try {
            DeleteBackgroundTaskResponse response = client.deleteBackgroundTask(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatus());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

```
    }
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

    credentials = BasicCredentials(ak, sk, projectId)

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

    try:
        request = DeleteBackgroundTaskRequest()
        request.instance_id = "{instance_id}"
        request.task_id = "{task_id}"
        response = client.delete_background_task(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

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

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

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

```
client := rocketmq.NewRocketMQClient(  
    rocketmq.RocketMQClientBuilder().  
        WithRegion(region.ValueOf("<YOUR REGION>")).  
        WithCredential(auth).  
        Build())  
  
request := &model.DeleteBackgroundTaskRequest{}  
request.InstanceId = "{instance_id}"  
request.TaskId = "{task_id}"  
response, err := client.DeleteBackgroundTask(request)  
if err == nil {  
    fmt.Printf("%+v\n", response)  
} else {  
    fmt.Println(err)  
}  
}
```

More

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

Status Codes

Status Code	Description
204	Successful

Error Codes

See [Error Codes](#).

5.12.3 Querying a Background Task List of an Instance

Function

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

Calling Method

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

URI

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

Table 5-213 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	<p>Definition: Project ID. For details, see Obtaining a Project ID.</p> <p>Constraints: N/A</p> <p>Range: N/A</p> <p>Default Value: N/A</p>
instance_id	Yes	String	<p>Definition: Instance ID. To obtain it, log in to the RocketMQ console and find the instance ID on the RocketMQ instance details page.</p> <p>Constraints: N/A</p> <p>Range: N/A</p> <p>Default Value: N/A</p>

Table 5-214 Query Parameters

Parameter	Mandatory	Type	Description
start	No	Integer	<p>Definition: ID of the task where the query starts.</p> <p>Constraints: N/A</p> <p>Range: ≥ 0</p> <p>Default Value: N/A</p>

Parameter	Mandatory	Type	Description
limit	No	Integer	Definition: Number of records to query. Constraints: N/A Range: N/A Default Value: N/A
begin_time	No	String	Definition: Time of a task where the query starts. The format is YYYYMMDDHHmmss. Constraints: N/A Range: ≥ 0 Default Value: N/A
end_time	No	String	Definition: Time of a task where the query ends. The format is YYYYMMDDHHmmss. Constraints: N/A Range: N/A Default Value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 5-215 Response body parameters

Parameter	Type	Description
task_count	String	Definition: Number of tasks. Range: N/A
tasks	Array of tasks objects	Definition: Task list.

Table 5-216 tasks

Parameter	Type	Description
id	String	Definition: Task ID. Range: N/A
name	String	Definition: Task name. Range: N/A
user_name	String	Definition: Username. Range: N/A
user_id	String	Definition: User ID. Range: N/A
params	String	Definition: Task parameters. Range: N/A
status	String	Definition: Task status. Range: N/A

Parameter	Type	Description
created_at	String	Definition: Start time. Range: N/A
updated_at	String	Definition: End time. Range: 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"  
    } ]  
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;  
  
import com.huaweicloud.sdk.core.auth.ICredential;  
import com.huaweicloud.sdk.core.auth.BasicCredentials;  
import com.huaweicloud.sdk.core.exception.ConnectionException;  
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;  
import com.huaweicloud.sdk.core.exception.ServiceResponseException;  
import com.huaweicloud.sdk.rocketmq.v2.region.RocketMQRegion;  
import com.huaweicloud.sdk.rocketmq.v2.*;  
import com.huaweicloud.sdk.rocketmq.v2.model.*;  
  
public class ListBackgroundTasksSolution {
```

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

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

    RocketMQClient client = RocketMQClient.newBuilder()
        .withCredential(auth)
        .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))
        .build();
    ListBackgroundTasksRequest request = new ListBackgroundTasksRequest();
    request.withInstanceId("{instance_id}");
    try {
        ListBackgroundTasksResponse response = client.listBackgroundTasks(request);
        System.out.println(response.toString());
    } catch (ConnectionException e) {
        e.printStackTrace();
    } catch (RequestTimeoutException e) {
        e.printStackTrace();
    } catch (ServiceResponseException e) {
        e.printStackTrace();
        System.out.println(e.getHttpStatusCode());
        System.out.println(e.getRequestId());
        System.out.println(e.getErrorCode());
        System.out.println(e.getErrorMsg());
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

    credentials = BasicCredentials(ak, sk, projectId)

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

    try:
        request = ListBackgroundTasksRequest()
        request.instance_id = "{instance_id}"
        response = client.list_background_tasks(request)
```

```
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

```
package main

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

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

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

    client := rocketmq.NewRocketMQClient(
        rocketmq.RocketMQClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>").
            WithCredential(auth).
            Build()))

    request := &model.ListBackgroundTasksRequest{}
    request.InstanceId = "{instance_id}"
    response, err := client.ListBackgroundTasks(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

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

Status Codes

Status Code	Description
200	Successful

Error Codes

See [Error Codes](#).

5.13 Other APIs

5.13.1 Querying AZ Information

Function

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

Calling Method

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

URI

GET /v2/available-zones

Request Parameters

None

Response Parameters

Status code: 200

Table 5-217 Response body parameters

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

Table 5-218 available_zones

Parameter	Type	Description
soldOut	Boolean	<p>Parameter description: Whether resources are sold out.</p> <p>Value range:</p> <ul style="list-style-type: none"> • true: Yes • false: No
id	String	<p>Parameter description: AZ ID.</p> <p>Value range: N/A</p>
code	String	<p>Parameter description: AZ code.</p> <p>Value range: N/A</p>
name	String	<p>Parameter description: AZ name.</p> <p>Value range: N/A</p>
port	String	<p>Parameter description: AZ port.</p> <p>Value range: N/A</p>
resource_availability	String	<p>Parameter description: Whether the AZ has available resources.</p> <p>Value range: N/A</p>
default_az	Boolean	<p>Parameter description: Whether the AZ is the default one.</p> <p>Value range:</p> <ul style="list-style-type: none"> • true: Yes • false: No
remain_time	Long	<p>Parameter description: Remaining time.</p> <p>Value range: N/A</p>

Parameter	Type	Description
ipv6_enable	Boolean	Parameter description: Whether IPv6 is supported. Value range: <ul style="list-style-type: none">• true: Yes• false: No

Example Requests

Querying AZ information

```
GET https://{endpoint}/v2/available-zones?engine=reliability
```

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" : "d539378ec1314c85b76fefafa3f7071458",
    "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
  } ]
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

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

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

public class ListAvailableZonesSolution {

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

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

        RocketMQClient client = RocketMQClient.newBuilder()
            .withCredential(auth)
            .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))
            .build();
        ListAvailableZonesRequest request = new ListAvailableZonesRequest();
        try {
            ListAvailableZonesResponse response = client.listAvailableZones(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatus());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

```
credentials = BasicCredentials(ak, sk)

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

try:
    request = ListAvailableZonesRequest()
    response = client.list_available_zones(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

```
package main

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

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

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

    client := rocketmq.NewRocketMQClient(
        rocketmq.RocketMQClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

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

More

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

Status Codes

Status Code	Description
200	AZ information queried successfully.

Error Codes

See [Error Codes](#).

5.13.2 Querying Flavor List

Function

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

Calling Method

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

URI

GET /v2/{engine}/products

Table 5-219 Path Parameters

Parameter	Mandatory	Type	Description
engine	Yes	String	Parameter description: Engine type. Constraints: N/A Value range: N/A Default value: N/A

Table 5-220 Query Parameters

Parameter	Mandatory	Type	Description
type	Yes	String	Parameter description: Edition. Constraints: N/A Value range: N/A Default value: N/A
product_id	Yes	String	Parameter description: Product ID. Constraints: N/A Value range: N/A Default value: N/A
limit	No	Integer	Parameter description: Number of records to query. Constraints: N/A Value range: N/A Default value: 10
offset	No	Integer	Parameter description: Offset where the query starts. Constraints: N/A Value range: ≥ 0 Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 5-221 Response body parameters

Parameter	Type	Description
total	Number	Parameter description: Total number. Value range: ≥ 0
next_offset	Integer	Parameter description: Offset of the next page. Value range: ≥ 0
previous_offset	Integer	Parameter description: Offset of the previous page. Value range: ≥ 0
engine	String	Parameter description: Engine type. Value range: N/A
versions	Array of strings	Parameter description: Supported versions.
products	Array of ProductEntity objects	Parameter description: Instance details.

Table 5-222 ProductEntity

Parameter	Type	Description
type	String	Parameter description: Edition. Value range: <ul style="list-style-type: none"> • single: single-node • cluster: cluster

Parameter	Type	Description
product_id	String	Parameter description: Product ID. Value range: N/A
ecs_flavor_id	String	Parameter description: ID of an ECS flavor. Value range: N/A
billing_code	String	Parameter description: CBC specification code. Value range: N/A
arch_types	Array of strings	Parameter description: Architecture type.
charging_mode	Object	Parameter description: Billing mode. Value range: N/A
ios	Object	Parameter description: Supported I/O types. Value range: N/A
support_features	Object	Parameter description: Supported features. Value range: N/A
properties	Object	Parameter description: Product features. Value range: N/A
available_zones	Array of strings	Parameter description: Availability zones.
unavailable_zones	Array of strings	Parameter description: Unavailability zones.

Parameter	Type	Description
qingtian_incompatible	Boolean	<p>Parameter description: Whether the instance is a QingTian one.</p> <p>Value range:</p> <ul style="list-style-type: none">• true: Yes• false: No

Example Requests

GET https://[endpoint]/v2/{engine}/products

Example Responses

Status code: 200

Successful

```
{  
    "total" : 1,  
    "next_offset" : -1,  
    "previous_offset" : -1,  
    "engine" : "rocketmq",  
    "versions" : [ ],  
    "products" : [ ]  
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

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

```
.withSk(sk);

RocketMQClient client = RocketMQClient.newBuilder()
    .withCredential(auth)
    .withRegion(RocketMQRegion.valueOf("<YOUR REGION>"))
    .build();
ListEngineProductsRequest request = new ListEngineProductsRequest();
request.withEngine("{engine}");
try {
    ListEngineProductsResponse response = client.listEngineProducts(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkrocketmq.v2.region.rocketmq_region import RocketMQRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkrocketmq.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = ListEngineProductsRequest()
        request.engine = "{engine}"
        response = client.list_engine_products(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

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

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

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

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

    client := rocketmq.NewRocketMQClient(
        rocketmq.RocketMQClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>").
            WithCredential(auth).
            Build()))

    request := &model.ListEngineProductsRequest{}
    request.Engine = "{engine}"
    response, err := client.ListEngineProducts(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

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

Status Codes

Status Code	Description
200	Successful

Error Codes

See [Error Codes](#).

5.13.3 Querying vCPUs of a RocketMQ Flavor

Function

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

Calling Method

For details, see [Calling APIs](#).

URI

GET /v2/rocketmq/products/cores

Table 5-223 Path Parameters

Parameter	Mandatory	Type	Description
product_id	Yes	String	Parameter description: Product ID. Constraints: N/A Value range: N/A Default value: N/A
broker_num	Yes	String	Parameter description: Number of brokers. Constraints: N/A Value range: N/A Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 5-224 Response body parameters

Parameter	Type	Description
core_num	Integer	Parameter description: Number of vCPUs. Value range: N/A

Example Requests

```
GET https://[endpoint]/v2/rocketmq/products/cores?product_id=c6.8u16g.cluster&broker_num=1
```

Example Responses

Status code: 200

Successful

```
{  
    "core_num": 135  
}
```

Status Codes

Status Code	Description
200	Successful

Error Codes

See [Error Codes](#).

6 Example Applications

6.1 Creating Topics in Batches

RocketMQ does not provide an API for creating topics in batches. To create topics in batches, their users can only create them one by one by calling an API each time. On the contrary, DMS for RocketMQ provides an API for creating topics in batches in code.

Prerequisites

- The endpoint of the region where IAM and RocketMQ are deployed has been obtained.
- The RocketMQ instance ID and the project (instance region) ID have been obtained.

Creating Various Topics in Batches Using a 5.x Huawei Cloud SDK

1. Create a **topics.txt** file for storing information of the topic to be created. The file should contain content in the *topic name message type* form. The message types are **NORMAL**, **FIFO**, **DELAY**, and **TRANSACTION**. For example:

topic-test01 NORMAL

topic-test02 FIFO

topic-test02 DELAY

topic-test02 TRANSACTION

One line for one topic. You can specify multiple lines as required.

2. Create topics in a batch by calling an API in code.

Sample code

Modify the parts in bold to actual values.

```
package com.huaweicloud.sdk.test;
import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.rocketmq.v2.region.RocketMQRegion;
```

```
import com.huaweicloud.sdk.rocketmq.v2.*;
import com.huaweicloud.sdk.rocketmq.v2.model.*;

import java.io.*;
import java.util.List;
import java.util.ArrayList;

public class CreateBatchTopicSolution {
    public static void main(String[] args) throws IOException {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before
        // running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local
        // environment
        String ak = "{CLOUD_SDK_AK}"; //Access key ID. To check the AK, see Obtaining an AK/SK.
        String sk = "{CLOUD_SDK_SK}"; //Secret key. To check the SK, see Obtaining an AK/SK.
        String projectId = "{project_id}"; //Project ID. To check the project ID, see Obtaining a Project
        ID.

        ICredential auth = new BasicCredentials()
            .withProjectId(projectId)
            .withAk(ak)
            .withSk(sk);

        RocketMQClient client = RocketMQClient.newBuilder()
            .withCredential(auth)
            .withRegion(RocketMQRegion.valueOf("<YOUR REGION>")) //Region where the project
        is. See the region by referring to Obtaining a Project ID.
            .build();

        File file = new File("d:/topics.txt"); //The path of the topic file in 1. The file name and patch
        can be custom.
        FileReader fileReader = new FileReader(file);
        BufferedReader bufferedReader = new BufferedReader(fileReader);
        String str = null;
        List<producer.TopicEntity> list = new ArrayList<>();
        while ;(str = bufferedReader.readLine()) != null) {
            String[] topic = str.split(" ");
            list.add(new producer.TopicEntity(topic[0],topic[1]));
        }
        bufferedReader.close();
        CreateTopicOrBatchDeleteTopicRequest request = new
CreateTopicOrBatchDeleteTopicRequest();
        request.withInstanceId("{instance_id}"); //RocketMQ instance ID
        CreateTopicOrBatchDeleteTopicReq body = new CreateTopicOrBatchDeleteTopicReq();
        for (int i = 0; i < list.size(); i++) {

body.withMessageType(CreateTopicOrBatchDeleteTopicReq.MessageTypeEnum.fromValue(list.get(i).ge
tMessageType()));
            body.withName(list.get(i).getName());
            request.withBody(body);
            try {
                CreateTopicOrBatchDeleteTopicResponse response =
client.createTopicOrBatchDeleteTopic(request);
                System.out.println(response.toString());
            } catch (ConnectionException e) {
                e.printStackTrace();
            } catch (RequestTimeoutException e) {
                e.printStackTrace();
            } catch (ServiceResponseException e) {
                e.printStackTrace();
                System.out.println(e.getHttpStatusCode());
                System.out.println(e.getRequestId());
                System.out.println(e.getErrorCode());
                System.out.println(e.getErrorMsg());
            }
        }
    }
}
```

```
}

//TopicEntity.java
public class TopicEntity {
    private String name; //Topic name.
    private String messageType; //Message type.

    public String getName() {
        return name;
    }

    public void setName(String name) {
        this.name = name;
    }
    public String getMessageType() {
        return messageType;
    }

    public void setMessageType(String messageType) {
        this.messageType = messageType;
    }

    public TopicEntity(String name, String messageType) {
        this.name = name;
        this.messageType = messageType;
    }
}
```

7

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 7-1](#) in custom policies.

Table 7-1 DMS for RocketMQ actions

Permission	API	Action	IAM Project	Enterprise Project
Creating a Pay-per-Use Instance	POST /v2/{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	√	√
Modifying a Topic	PUT /v2/{project_id}/instances/{instance_id}/topics/{topic}	dms:instance:modify	√	√
Querying the Topic Consumer Group List	GET /v2/{project_id}/instances/{instance_id}/topics/{topic}/groups	dms:instance:get	√	√

Permission	API	Action	IAM Project	Enterprise Project
Querying the Number of Messages in a Topic	GET /v2/{project_id}/instances/{instance_id}/topics/{topic}/status	dms:instance:get	✓	✓
Querying Messages	GET /v2/{engine}/{project_id}/instances/{instance_id}/messages	dms:instance:get	✓	✓
Creating a User	POST /v2/{project_id}/instances/{instance_id}/users	dms:instance:modify	✓	✓
Querying the User List	GET /v2/{project_id}/instances/{instance_id}/users	dms:instance:get	✓	✓
Querying User Details	GET /v2/{project_id}/instances/{instance_id}/users/{user_name}	dms:instance:get	✓	✓

8 Historical APIs

8.1 API V1

8.1.1 APIs for Managing Instances

8.1.1.1 Creating an Instance

Function

This API is used to create an instance.

Call Method

For details, see [How to Call an API](#).

URI

POST /v1.0/{*project_id*}/instances

Table 8-1 URI parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see Obtaining a Project ID .

Request Parameters

None

Response Parameters

Status code: 200

Table 8-2 Response body parameter

Parameter	Type	Description
name	String	Instance name. An instance name starts with a letter, consists of 4 to 64 characters, and can contain only letters, digits, underscores (_), and hyphens (-).
description	String	Description of an instance. The description supports up to 1024 characters. NOTE The backslash (\) and quotation mark ("") are special characters for JSON messages. When using these characters in a parameter value, add the escape character (\) before the characters, for example, \\ and \".
engine	String	Message engine. Value: reliability
engine_version	String	Version of the message engine. Value: 4.8.0
storage_space	Integer	Storage space.
vpc_id	String	VPC ID. To obtain it, log in to the VPC console and view the VPC ID on the VPC details page.
subnet_id	String	Subnet information. To obtain it, log in to VPC console and click the target subnet on the Subnets page. You can view the network ID on the displayed page.
security_group_id	String	Security group which the instance belongs to. To obtain it, log in to the VPC console and view the security group ID on the security group details page.

Parameter	Type	Description
available_zones	Array of strings	<p>ID of the AZ where instance brokers reside and which has available resources. Obtain the AZ ID by referring to Listing AZ Information.</p> <p>The parameter value cannot be empty or null. Check whether resources exist in the AZs.</p> <p>A RocketMQ instance can be deployed in 1 AZ or at least 3 AZs. When specifying AZs for brokers, use commas (,) to separate multiple AZs.</p>
product_id	String	<p>RocketMQ instance flavors.</p> <ul style="list-style-type: none"> • c6.4u8g.cluster.small: maximum number of topics on each broker: 2,000; maximum number of consumer groups on each broker: 2,000 • c6.4u8g.cluster: maximum number of topics on each broker: 4,000; maximum number of consumer groups on each broker: 4,000 • c6.8u16g.cluster: maximum number of topics on each broker: 8,000; maximum number of consumer groups on each broker: 8,000 • c6.12u24g.cluster: maximum number of topics on each broker: 12,000; maximum number of consumer groups on each broker: 12,000 • c6.16u32g.cluster: maximum number of topics on each broker: 16,000; maximum number of consumer groups on each broker: 16,000
ssl_enable	Boolean	<p>Indicates whether to enable SSL-encrypted access.</p> <ul style="list-style-type: none"> • true: enable • false: disable
storage_spec_code	String	<p>Storage I/O specification.</p> <ul style="list-style-type: none"> • dms.physical.storage.high.v2: high I/O disk • dms.physical.storage.ultra.v2: ultra-high I/O disk

Parameter	Type	Description
enterprise_project_id	String	Indicates the enterprise project ID. This parameter is mandatory for an enterprise project account.
enable_acl	Boolean	Whether access control is enabled.
ipv6_enable	Boolean	Whether IPv6 is supported. <ul style="list-style-type: none"> ● true: yes ● false: no
enable_publicip	Boolean	Indicates whether to enable public access. By default, public access is disabled. <ul style="list-style-type: none"> ● true: enable ● false: disable
publicip_id	String	ID of the elastic IP address (EIP) bound to an instance. Use commas (,) to separate multiple EIP IDs. This parameter is mandatory if public access is enabled (that is, enable_publicip is set to true).
broker_num	Integer	Number of brokers.
bss_param	BssParam object	Parameter related to the yearly/monthly billing mode. If this parameter is left blank, the billing mode is pay-per-use by default. If this parameter is not left blank, the billing mode is yearly/monthly.

Table 8-3 BssParam

Parameter	Type	Description
is_auto_renew	Boolean	Indicates whether auto-renewal is enabled. Value range: <ul style="list-style-type: none"> ● true: Yes ● false: No By default, auto renewal is disabled.

Parameter	Type	Description
charging_mode	String	<p>Billing mode. This parameter specifies a payment mode. Value range:</p> <ul style="list-style-type: none"> • prePaid: yearly/monthly • postPaid: pay-per-use <p>The default value is postPaid.</p>
is_auto_pay	Boolean	<p>Specifies whether the order is automatically or manually paid. Value range:</p> <ul style="list-style-type: none"> • true: Yes. The order will be automatically paid. • false: No. The order needs to be paid manually. <p>The default value is false.</p>
period_type	String	<p>Subscription period Value range:</p> <ul style="list-style-type: none"> • month • year <p>This parameter is valid and mandatory when chargingMode is set to prePaid.</p>
period_num	Integer	<p>Number of subscription periods. Value range:</p> <ul style="list-style-type: none"> • If periodType is month, the value ranges from 1 to 9. • If periodType is year, the value ranges from 1 to 3. <p>This parameter is valid and mandatory when chargingMode is set to prePaid.</p>

Example Requests

POST https://{{endpoint}}/v1.0/dms/{{project_id}}/instances

Example Response

Status code: 200

Successfully created.

```
{  
    "instance_id": "8959ab1c-7n1a-yb1-a05t-93dfc361b32d"  
}
```

Status Code

Status Code	Description
200	Successful

Error Codes

See [Error Codes](#).

8.1.1.2 Querying an Instance

Function

This API is used to query an instance.

Call Method

For details, see [How to Call an API](#).

URI

GET /v1.0/{project_id}/instances/{instance_id}

Table 8-4 URI parameters

Parameter	Mandatory	Type	Description
instance_id	Yes	String	Indicates the instance ID.
project_id	Yes	String	Project ID. For details, see Obtaining a Project ID .

Request Parameters

None

Response Parameters

Status code: 200

Table 8-5 Response body parameter

Parameter	Type	Description
name	String	Indicates the instance name.
engine	String	Engine.
status	String	Status.
description	String	Message description.
type	String	Indicates the instance type. Value: cluster .
specification	String	Indicates the instance specification.
engine_version	String	Version.
instance_id	String	Indicates the instance ID.
charging_mode	Integer	Indicates the billing mode. 1 : pay-per-use mode; 0 : yearly/monthly billing.
vpc_id	String	VPC ID.
vpc_name	String	VPC name.
created_at	String	Indicates the time when an instance is created. The time is in the format of timestamp, that is, the offset milliseconds from 1970-01-01 00:00:00 UTC to the specified time.
product_id	String	Indicates the product ID.
security_group_id	String	Indicates the security group ID.
security_group_name	String	Indicates the security group name.
subnet_id	String	Indicates the subnet ID.
subnet_name	String	Indicates the subnet name.
subnet_cidr	String	Subnet route. This field is displayed only for RocketMQ 5.x.
available_zones	Array of strings	AZ ID list.
available_zone_names	Array of strings	AZ name list.
user_id	String	User ID.
user_name	String	Indicates the username.
maintain_begin	String	Time at which the maintenance time window starts. Format: <i>HH:mm:ss</i> .

Parameter	Type	Description
maintain_end	String	Time at which the maintenance time window ends. Format: <i>HH:mm:ss</i> .
enable_log_collection	Boolean	Indicates whether log collection is enabled.
storage_space	Integer	Storage space, in GB.
used_storage_space	Integer	Used message storage space. Unit: GB.
enable_publicip	Boolean	Whether to enable public access.
publicip_id	String	ID of the elastic IP address (EIP) bound to an instance. Use commas (,) to separate multiple EIP IDs. This parameter is mandatory if public access is enabled (that is, enable_publicip is set to true).
publicip_address	String	Public IP address.
ssl_enable	Boolean	Whether SSL is enabled.
cross_vpc_info	String	Indicates cross-VPC access information.
storage_resource_id	String	Indicates the storage resource ID.
storage_spec_code	String	Storage specification code.
service_type	String	Indicates the service type.
storage_type	String	Indicates the storage type.
extend_times	Long	Extension time.
ipv6_enable	Boolean	Whether IPv6 is enabled.
support_features	String	Features supported by the instance.
disk_encrypted	Boolean	Indicates whether disk encryption is enabled.
ces_version	String	Indicates the Cloud Eye version.
node_num	Integer	Number of nodes.
new_spec_billing_enable	Boolean	Whether billing based on new specifications is enabled.
enable_acl	Boolean	Whether access control is enabled.
broker_num	Integer	Number of nodes (displayed only for RocketMQ 4.8.0).

Parameter	Type	Description
dns_enable	Boolean	Whether to enable domain name access to an instance. <ul style="list-style-type: none"> • true: enable • false: disable
namesrv_address	String	Metadata address.
namesrv_domain_name	String	Metadata domain name.
broker_address	String	Service data address.
public_namesrv_address	String	Public network metadata address.
public_namesrv_domain_name	String	Public metadata domain name.
public_broker_address	String	Public network service data address.
grpc_address	String	gRPC connection address (displayed only for RocketMQ 5.x).
grpc_domain_name	String	gRPC connection domain name (displayed only for RocketMQ 5.x).
public_grpc_address	String	Public gRPC connection address (displayed only for RocketMQ 5.x).
public_grpc_domain_name	String	Public gRPC domain name (displayed only for RocketMQ 5.x).
enterprise_project_id	String	Indicates the enterprise project ID.
tags	Array of TagEntity objects	Indicates the list of tags.
total_storage_space	Integer	Total storage space.
resource_spec_code	String	Resource specification.

Table 8-6 TagEntity

Parameter	Type	Description
key	String	<p>Tag key, which:</p> <ul style="list-style-type: none"> • Cannot be blank. • Must be unique for the same instance. • Can contain 1 to 128 characters. • Can contain letters, digits, spaces, and special characters _:=+-@ • Cannot start or end with a space.
value	String	<p>Tag value, which:</p> <ul style="list-style-type: none"> • Can contain 0 to 255 characters. • Can contain letters, digits, spaces, and special characters _:=+-@ • Cannot start or end with a space.

Example Requests

GET https://*{endpoint}*/v1.0/dms/*{project_id}*/instances/*{instance_id}*

Example Response

Status code: 200

Metrics 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": "0a0f1fcf-f019-458d-b9e5-301867394d50",
  "subnet_name": "subnet-test",
  "subnet_cidr": "192.168.64.0/18",
  "available_zones": [ "9f1c5806706d4c1fb0eb72f0a9b18c77" ],
  "available_zone_names": [ "AZ3" ],
  "user_id": "0b01fb53600d4671fa8c00673c71260",
  "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" :
"kafka.crossvpc.domain.enable,auto.create.topics.enable,rabbitmq.plugin.management,support.permissive.mo
de,auto_topic_switch,feature.physerver.kafka.user.manager,kafka.ssl.2way.modify.enable,kafka.new.pod.port,
message_trace_enable,features.pod.token.access,log.enable,features.log.collection,max.connections,rabbitmq.
manage.support,replica_port_standalone,feature.physerver.kafka.topic.accesspolicy.enable,kafka.quota.monit
or,rocketmq.acl,roma_app_enable,support.kafka.producer.ip.enable,new.authinfo,enable.kafka.quota,rabbitmq
_run_log_enable,max.ssl.connections,route,message_trace_v2_enable,kafka.config.dynamic.modify.enable,feat
ure.physerver.kafka.topic.modify,enable.topic.quota,kafka.ssl.cert.modify.enable,roma.user.manage,no.support
,auto.create.groups.enable,feature.physerver.kafka.pulbic.dynamic,kafka.config.static.modify.enable",
"disk_encrypted" : false,
"ces_version" : "linux,v1,v2,v3,v4",
"new_spec_billing_enable" : true,
"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 Code

Status Code	Description
200	Successful

Error Code

See [Error Codes](#).

8.1.1.3 Querying the Instance List

Function

This API is used to query all instances.

Call Method

For details, see [How to Call an API](#).

URI

GET /v1.0/{project_id}/instances

Table 8-7 URI parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see Obtaining a Project ID .

Request Parameters

None

Response Parameters

Status code: 200

Table 8-8 Response body parameter

Parameter	Type	Description
instances	Array of ShowInstanceResp objects	Instance list.
instance_num	Integer	Number of instances.

Table 8-9 ShowInstanceResp

Parameter	Type	Description
name	String	Indicates the instance name.
engine	String	Engine.
status	String	Status.
description	String	Message description.
type	String	Indicates the instance type. Value: cluster .
specification	String	Indicates the instance specification.
engine_version	String	Version.
instance_id	String	Indicates the instance ID.
charging_mode	Integer	Indicates the billing mode. 1 : pay-per-use mode; 0 : yearly/monthly billing.
vpc_id	String	VPC ID.
vpc_name	String	VPC name.

Parameter	Type	Description
created_at	String	Indicates the time when an instance is created. The time is in the format of timestamp, that is, the offset milliseconds from 1970-01-01 00:00:00 UTC to the specified time.
product_id	String	Indicates the product ID.
security_group_id	String	Indicates the security group ID.
security_group_name	String	Indicates the security group name.
subnet_id	String	Indicates the subnet ID.
subnet_name	String	Indicates the subnet name.
subnet_cidr	String	Subnet route. This field is displayed only for RocketMQ 5.x.
available_zones	Array of strings	AZ ID list.
available_zone_names	Array of strings	AZ name list.
user_id	String	User ID.
user_name	String	Indicates the username.
maintain_begin	String	Time at which the maintenance time window starts. Format: <i>HH:mm:ss</i> .
maintain_end	String	Time at which the maintenance time window ends. Format: <i>HH:mm:ss</i> .
enable_log_collection	Boolean	Indicates whether log collection is enabled.
storage_space	Integer	Storage space, in GB.
used_storage_space	Integer	Used message storage space. Unit: GB.
enable_publicip	Boolean	Whether to enable public access.
publicip_id	String	ID of the elastic IP address (EIP) bound to an instance. Use commas (,) to separate multiple EIP IDs. This parameter is mandatory if public access is enabled (that is, <code>enable_publicip</code> is set to <code>true</code>).
publicip_address	String	Public IP address.
ssl_enable	Boolean	Whether SSL is enabled.

Parameter	Type	Description
cross_vpc_info	String	Indicates cross-VPC access information.
storage_resource_id	String	Indicates the storage resource ID.
storage_spec_code	String	Storage specification code.
service_type	String	Indicates the service type.
storage_type	String	Indicates the storage type.
extend_times	Long	Extension time.
ipv6_enable	Boolean	Whether IPv6 is enabled.
support_features	String	Features supported by the instance.
disk_encrypted	Boolean	Indicates whether disk encryption is enabled.
ces_version	String	Indicates the Cloud Eye version.
node_num	Integer	Number of nodes.
new_spec_billing_enable	Boolean	Whether billing based on new specifications is enabled.
enable_acl	Boolean	Whether access control is enabled.
broker_num	Integer	Number of nodes (displayed only for RocketMQ 4.8.0).
dns_enable	Boolean	Whether to enable domain name access to an instance. <ul style="list-style-type: none"> • true: enable • false: disable
namesrv_address	String	Metadata address.
namesrv_domain_name	String	Metadata domain name.
broker_address	String	Service data address.
public_namesrv_address	String	Public network metadata address.
public_namesrv_domain_name	String	Public metadata domain name.
public_broker_address	String	Public network service data address.
grpc_address	String	gRPC connection address (displayed only for RocketMQ 5.x).

Parameter	Type	Description
grpc_domain_name	String	gRPC connection domain name (displayed only for RocketMQ 5.x).
public_grpc_address	String	Public gRPC connection address (displayed only for RocketMQ 5.x).
public_grpc_domain_name	String	Public gRPC domain name (displayed only for RocketMQ 5.x).
enterprise_project_id	String	Indicates the enterprise project ID.
tags	Array of TagEntity objects	Indicates the list of tags.
total_storage_space	Integer	Total storage space.
resource_spec_code	String	Resource specification.

Table 8-10 TagEntity

Parameter	Type	Description
key	String	Tag key, which: <ul style="list-style-type: none"> Cannot be blank. Must be unique for the same instance. Can contain 1 to 128 characters. Can contain letters, digits, spaces, and special characters _:=+@ Cannot start or end with a space.
value	String	Tag value, which: <ul style="list-style-type: none"> Can contain 0 to 255 characters. Can contain letters, digits, spaces, and special characters _:=+@ Cannot start or end with a space.

Example Requests

GET https://{{endpoint}}/v1.0/dms/{{project_id}}/instances

Example Response

Status code: 200

Metrics 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": "0a0f1fcf-f019-458d-b9e5-301867394d50",  
        "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,  
        "cross_vpc_info": "{\"192.168.1.21\":{\"advertiseds_ip\":\"192.168.1.21\",\"broker_port\":\"-\",\"port_id\":\"fa020857-d899-497c-a5f8-8dd90ed67ff7\",\"namesrv_port\":\"8301\",\"192.168.1.246\":{\"advertiseds_ip\":\"192.168.1.246\",\"broker_port\":\"10100\",\"port_id\":\"c0f0586f-a4ee-41b5-a7f1-b4e554bbf12d\"},\"namesrv_port\":\"-\"},\"192.168.1.77\":{\"advertiseds_ip\":\"192.168.1.77\",\"broker_port\":\"10101\",\"port_id\":\"8eb1d144-4315-402f-8498-37c9a10b630c\"},\"namesrv_port\":\"-\"},\"192.168.1.159\":{\"advertiseds_ip\":\"192.168.1.159\",\"broker_port\":\"-\",\"port_id\":\"d35b22af-a202-4329-bda4-26e1bdf2aa8e\"},\"namesrv_port\":\"8300\"},\"192.168.1.14\":{\"advertiseds_ip\":\"192.168.1.14\",\"broker_port\":\"10102\",\"port_id\":\"5fcf50fd-3af5-4123-a455-a67f1b92602\"},\"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":  
            "kafka.crossvpc.domain.enable,feature.physerver.kafka.topic.accesspolicy,rabbitmq.plugin.management,rocketmq.acl,roma_app_enable,auto_topic_switch,feature.physerver.kafka.user.manager,enable,new.authinfo,route,kafka.config.dynamic.modify,enable,kafka.new.pod.port,feature.physerver.kafka.topic.modify,message_trace_enable,features.pod.token.access,kafka.ssl.cert.modify,enable,roma.user.manage,no.support,feature.physerver.kafka.pulbic.dynamic,features.log.collection,kafka.config.static.modify,enable",  
            "disk_encrypted": false,  
            "ces_version": "linux,v1,v2",  
            "node_num": 5,  
            "new_spec_billing_enable": true,  
            "broker_num": 1,  
            "namesrv_address": "***",  
            "broker_address": "***",  
            "public_namesrv_address": "***",  
            "public_broker_address": "***",  
            "grpc_address": "***",  
            "public_grpc_address": "***"  
        } ],  
        "instance_num": 1  
    }]
```

Status Code

Status Code	Description
200	Successful

Error Code

See [Error Codes](#).

8.1.1.4 Modifying an Instance

Function

This API is used to modify an instance.

Call Method

For details, see [How to Call an API](#).

URI

PUT /v1.0/{project_id}/instances/{instance_id}

Table 8-11 URI parameters

Parameter	Mandatory	Type	Description
instance_id	Yes	String	Indicates the instance ID.
project_id	Yes	String	Project ID. For details, see Obtaining a Project ID .

Request Parameters

None

Response Parameters

None

Example Requests

PUT https://{endpoint}/v1.0/dms/{project_id}/instances/{instance_id}

Example Response

None

Status Code

Status Code	Description
200	Successful

Error Code

See [Error Codes](#).

8.1.1.5 Deleting an Instance

Function

This API is used to delete an instance.

Call Method

For details, see [How to Call an API](#).

URI

DELETE /v1.0/{project_id}/instances/{instance_id}

Table 8-12 URI parameters

Parameter	Mandatory	Type	Description
instance_id	Yes	String	Indicates the instance ID.
project_id	Yes	String	Project ID. For details, see Obtaining a Project ID .

Request Parameters

None

Response Parameters

None

Example Requests

DELETE https://{endpoint}/v1.0/dms/{project_id}/instances/{instance_id}

Example Response

None

Status Code

Status Code	Description
200	Successful

Error Code

See [Error Codes](#).

8.1.2 Other APIs

8.1.2.1 Querying Availability Zones

Function

This API is used to query availability zones.

Call Method

For details, see [How to Call an API](#).

URI

GET /v1.0/availableZones

Request Parameters

None

Response Parameters

Status code: 200

Table 8-13 Response body parameter

Parameter	Type	Description
region_id	String	Indicates the region ID.
available_zones	Array of available_zones objects	Array of AZs.

Table 8-14 available_zones

Parameter	Type	Description
soldOut	Boolean	Indicates whether resources are sold out.
id	String	Indicates the ID of an AZ.
code	String	Indicates the code of an AZ.
name	String	Indicates the name of an AZ.
port	String	Indicates the port number of an AZ.
resource_availability	String	Indicates whether an AZ has available resources.
default_az	Boolean	Whether the AZ is the default AZ.
remain_time	Long	Remaining time.
ipv6_enable	Boolean	Whether IPv6 is supported.

Example Requests

GET <https://{{endpoint}}/v1.0/availableZones>

Example Response

Status code: 200

Metrics 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" : "d539378ec1314c85b76fefafa3f7071458",  
        "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 Code

Status Code	Description
200	Successful

Error Code

See [Error Codes](#).

8.1.2.2 Querying Quotas

Function

This API is used to query quotas.

Call Method

For details, see [How to Call an API](#).

URI

GET /v1.0/{project_id}/quotas/dms

Table 8-15 URI parameter

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see Obtaining a Project ID .

Request

None.

Response

Status code: 200

Table 8-16 Response body parameter

Parameter	Type	Description
quotas	quotas object	Quota information.

Table 8-17 quotas

Parameter	Type	Description
resources	Array of QuotaResourceEntity objects	Quota list.

Table 8-18 QuotaResourceEntity

Parameter	Type	Description
type	String	Values: rabbitmqInstance , kafkaInstance , rocketmqInstance , and tags <ul style="list-style-type: none"> • rabbitmqInstance indicates the RabbitMQ instance quota. • kafkaInstance indicates the Kafka instance quota. • rocketmqInstance indicates the RocketMQ instance quota. • tags indicates the tag quota.
quota	Integer	The maximum number of instances that a tenant can create, or the maximum number of tags that can be created for each instance.
used	Integer	Number of created instances.

Example Request

```
GET https://{endpoint}/v1.0/{project_id}/quotas/dms
```

Example Response

Status code: 200

Metrics queried successfully.

```
{
  "quotas" : {
    "resources" : [ {
      "type" : "rabbitmqInstance",
```

```
        "quota" : 100,
        "used" : 3
    }, {
        "type" : "kafkaInstance",
        "quota" : 100,
        "used" : 17
    }, {
        "type" : "rocketmqInstance",
        "quota" : 100,
        "used" : 17
    }, {
        "type" : "tags",
        "quota" : 20
    } ]
}
```

Status Code

Status Code	Description
200	Metrics queried successfully.

Error Code

See [Error Codes](#).

8.1.2.3 Querying RocketMQ Instance Monitoring Dimensions

Function

This API is used to query RocketMQ instance monitoring dimensions.

Call Method

For details, see [How to Call an API](#).

URI

GET /v1.0/{project_id}/instances/{instance_id}/ceshierarchy

Table 8-19 URI parameters

Parameter	Mandatory	Type	Description
instance_id	Yes	String	Instance ID.
project_id	Yes	String	Project ID. For details, see Obtaining a Project ID .

Request

None.

Response

Status code: 200

Table 8-20 Response body parameters

Parameter	Type	Description
dimensions	Object	Monitoring dimensions.
instance_ids	Array of instance_ids objects	Instance information.
nodes	Array of nodes objects	Broker information.
queues	Array of queues objects	Topic information.
groups	Array of groups objects	Consumer group information.

Table 8-21 instance_ids

Parameter	Type	Description
name	String	Instance ID.

Table 8-22 nodes

Parameter	Type	Description
name	String	Broker name.

Table 8-23 queues

Parameter	Type	Description
name	String	Topic name.
partitions	Array of partitions objects	Partition list.

Table 8-24 partitions

Parameter	Type	Description
name	String	Partition name.

Table 8-25 groups

Parameter	Type	Description
name	String	Consumer group name.
queues	Array of queues objects	Topic information.

Table 8-26 queues

Parameter	Type	Description
name	String	Topic name.
partitions	Array of partitions objects	Partition information.

Table 8-27 partitions

Parameter	Type	Description
name	String	Partition name.

Example Request

```
GET https://{endpoint}/v1.0/{project_id}/instances/{instance_id}/ceshierarchy
```

Example Response

Status code: 200

Metrics queried successfully.

```
{
  "dimensions": [
    {
      "name": "kafka_instance_id",
      "metrics": [
        "current_partitions", "current_topics", "group_messages"
      ],
      "key_name": [
        "instance_ids"
      ],
      "dim_router": [
        "kafka_instance_id"
      ]
    },
    {
      "name": "kafka_broker",
      "metrics": [
        "broker_data_size", "broker_messages_in_rate", "broker_bytes_out_rate",
        "broker_bytes_in_rate", "broker_produce_mean", "broker_fetch_mean"
      ],
      "key_name": [
        "nodes"
      ],
      "dim_router": [
        "kafka_instance_id", "kafka_broker"
      ]
    }
  ]
}
```

```
}, {
    "name" : "kafka_rest",
    "metrics" : [ "rest_produce_success", "rest_produce_failed", "rest_produce_latency",
"rest_produce_msg_num", "rest_produce_flow", "rest_consume_success", "rest_consume_failed",
"rest_consume_latency", "rest_consume_msg_num", "rest_consume_flow", "rest_commit_success",
"rest_commit_failed", "rest_commit_latency", "rest_commit_msg_num", "rest_commit_flow" ],
    "key_name" : [ "nodes" ],
    "dim_router" : [ "kafka_instance_id", "kafka_rest" ]
}, {
    "name" : "kafka_topics",
    "metrics" : [ "topic_data_size", "topic_messages_in_rate", "topic_bytes_out_rate", "topic_bytes_in_rate",
"topic_messages" ],
    "key_name" : [ "queues" ],
    "dim_router" : [ "kafka_instance_id", "kafka_topics" ],
    "children" : [ {
        "name" : "kafka_partitions",
        "metrics" : [ "produced_messages", "partition_messages" ],
        "key_name" : [ "queues", "partitions" ],
        "dim_router" : [ "kafka_instance_id", "kafka_topics", "kafka_partitions" ]
    } ]
}, {
    "name" : "kafka_groups_partitions",
    "metrics" : [ "messages_consumed", "messages_remainded" ],
    "key_name" : [ "groups", "queues", "partitions" ],
    "dim_router" : [ "kafka_instance_id", "kafka_groups", "kafka_groups_topics", "kafka_groups_partitions" ]
}, [
    "instance_ids" : [ {
        "name" : "68f3f6a0-3741-453b-bda9-a6ff6b5bb6f7"
    } ],
    "nodes" : [ {
        "name" : "broker-0"
    }, {
        "name" : "broker-1"
    }, {
        "name" : "broker-2"
    }, {
        "queues" : [ {
            "name" : "aaaa",
            "partitions" : [ {
                "name" : "0"
            } ]
        }, {
            "name" : "mytest",
            "partitions" : [ {
                "name" : "0"
            }, {
                "name" : "1"
            }, {
                "name" : "2"
            } ]
        }, {
            "name" : "topic-84234378",
            "partitions" : [ {
                "name" : "0"
            }, {
                "name" : "1"
            }, {
                "name" : "2"
            } ]
        }, {
            "groups" : [ {
                "name" : "test-consumer-group",
                "queues" : [ {
                    "name" : "mytest",
                    "partitions" : [ {
                        "name" : "0"
                    }, {
                        "name" : "1"
                    }, {
                        "name" : "2"
                    } ]
                } ]
            } ]
        }
    }
]
```

```
        "name" : "2"
    }
}
}
}
```

Status Code

Status Code	Description
200	Metrics queried successfully.

Error Code

See [Error Codes](#).

8.1.2.4 Querying Product Flavors

Function

This API is used to query product flavors.

Call Method

For details, see [How to Call an API](#).

URI

GET /v1.0/products

Table 8-28 Query parameters

Parameter	Mandatory	Type	Description
instance_id	Yes	String	Instance ID.
product_id	Yes	String	Indicates the product ID.

Request

None.

Response

Status code: 200

Table 8-29 Response body parameters

Parameter	Type	Description
engine	String	Engine type.
versions	Array of strings	Supported versions.
products	Array of ProductEntity objects	Product details list.

Table 8-30 ProductEntity

Parameter	Type	Description
type	String	Product type, which can be single or cluster .
product_id	String	Indicates the product ID.
ecs_flavor_id	String	ECS flavor ID.
billing_code	String	CBC specification code.
arch_types	Array of strings	Architecture types.
charging_mode	Object	Billing mode.
ios	Object	Supported I/O type.
support_features	Object	Supported features.
properties	Object	Features.
available_zones	Array of strings	Availability zones.
unavailable_zones	Array of strings	Unavailability zones.
qingtian_incompatible	Boolean	Whether the instance is a QingTian instance.

Example Request

GET https://*{endpoint}*/v1.0/products

Example Response

Status code: 200

Metrics queried successfully.

```
{  
    "engine" : "rocketmq",  
    "versions" : [ ],  
    "products" : [ ]  
}
```

Status Code

Status Code	Description
200	Metrics queried successfully.

Error Code

See [Error Codes](#).

8.2 API V2

8.2.1 Instance Management

8.2.1.1 Querying an Instance

Function

This API is used to query the details about an instance.

Call Method

For details, see [How to Call an API](#).

URI

GET /v2/{engine}/{project_id}/instances/{instance_id}

Table 8-31 URI parameters

Parameter	Mandatory	Type	Description
engine	Yes	String	Engine.
project_id	Yes	String	Project ID. For details, see Obtaining a Project ID .
instance_id	Yes	String	Indicates the instance ID.

Request Parameters

None

Response Parameters

Status code: 200

Table 8-32 Response body parameter

Parameter	Type	Description
name	String	Indicates the instance name.
engine	String	Engine.
status	String	Status.
description	String	Message description.
type	String	Indicates the instance type. Value: cluster .
specification	String	Indicates the instance specification.
engine_version	String	Version.
instance_id	String	Indicates the instance ID.
charging_mode	Integer	Indicates the billing mode. 1 : pay-per-use mode; 0 : yearly/monthly billing.
vpc_id	String	VPC ID.
vpc_name	String	VPC name.
created_at	String	Indicates the time when an instance is created. The time is in the format of timestamp, that is, the offset milliseconds from 1970-01-01 00:00:00 UTC to the specified time.
product_id	String	Indicates the product ID.
security_group_id	String	Indicates the security group ID.
security_group_name	String	Indicates the security group name.
subnet_id	String	Indicates the subnet ID.
subnet_name	String	Indicates the subnet name.
subnet_cidr	String	Subnet route. This field is displayed only for RocketMQ 5.x.
available_zones	Array of strings	AZ ID list.
available_zone_names	Array of strings	AZ name list.
user_id	String	User ID.
user_name	String	Indicates the username.
maintain_begin	String	Time at which the maintenance time window starts. Format: <i>HH:mm:ss</i> .

Parameter	Type	Description
maintain_end	String	Time at which the maintenance time window ends. Format: <i>HH:mm:ss</i> .
enable_log_collection	Boolean	Indicates whether log collection is enabled.
storage_space	Integer	Storage space, in GB.
used_storage_space	Integer	Used message storage space. Unit: GB.
enable_publicip	Boolean	Whether to enable public access.
publicip_id	String	ID of the elastic IP address (EIP) bound to an instance. Use commas (,) to separate multiple EIP IDs. This parameter is mandatory if public access is enabled (that is, enable_publicip is set to true).
publicip_address	String	Public IP address.
ssl_enable	Boolean	Whether SSL is enabled.
cross_vpc_info	String	Indicates cross-VPC access information.
storage_resource_id	String	Indicates the storage resource ID.
storage_spec_code	String	Storage specification code.
service_type	String	Indicates the service type.
storage_type	String	Indicates the storage type.
extend_times	Long	Extension time.
ipv6_enable	Boolean	Whether IPv6 is enabled.
support_features	String	Features supported by the instance.
disk_encrypted	Boolean	Indicates whether disk encryption is enabled.
ces_version	String	Indicates the Cloud Eye version.
node_num	Integer	Number of nodes.
new_spec_billing_enable	Boolean	Whether billing based on new specifications is enabled.
enable_acl	Boolean	Whether access control is enabled.
broker_num	Integer	Number of nodes (displayed only for RocketMQ 4.8.0).

Parameter	Type	Description
dns_enable	Boolean	Whether to enable domain name access to an instance. <ul style="list-style-type: none"> • true: enable • false: disable
namesrv_address	String	Metadata address.
namesrv_domain_name	String	Metadata domain name.
broker_address	String	Service data address.
public_namesrv_address	String	Public network metadata address.
public_namesrv_domain_name	String	Public metadata domain name.
public_broker_address	String	Public network service data address.
grpc_address	String	gRPC connection address (displayed only for RocketMQ 5.x).
grpc_domain_name	String	gRPC connection domain name (displayed only for RocketMQ 5.x).
public_grpc_address	String	Public gRPC connection address (displayed only for RocketMQ 5.x).
public_grpc_domain_name	String	Public gRPC domain name (displayed only for RocketMQ 5.x).
enterprise_project_id	String	Indicates the enterprise project ID.
tags	Array of TagEntity objects	Indicates the list of tags.
total_storage_space	Integer	Total storage space.
resource_spec_code	String	Resource specification.

Table 8-33 TagEntity

Parameter	Type	Description
key	String	<p>Tag key, which:</p> <ul style="list-style-type: none"> • Cannot be blank. • Must be unique for the same instance. • Can contain 1 to 128 characters. • Can contain letters, digits, spaces, and special characters _.:=-@ • Cannot start or end with a space.
value	String	<p>Tag value, which:</p> <ul style="list-style-type: none"> • Can contain 0 to 255 characters. • Can contain letters, digits, spaces, and special characters _.:=-@ • Cannot start or end with a space.

Example Requests

GET https://*{endpoint}*/v2/*{engine}*/*{project_id}*/instances/*{instance_id}*

Example Response

Status code: 200

Metrics 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": "0a0f1fcf-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" :
"kafka.crossvpc.domain.enable,auto.create.topics.enable,rabbitmq.plugin.management,support.permissive.mode,auto_topic_switch,feature.physerver.kafka.user.manager,kafka.ssl.2way.modify.enable,kafka.new.pod.port,message_trace_enable,features.pod.token.access,log.enable,features.log.collection,max.connections,rabbitmq.manage.support,replica_port_standalone,feature.physerver.kafka.topic.accesspolicy.enable,kafka.quota.monit,or,rocketmq.acl,roma_app_enable,support.kafka.producer.ip.enable,new.authinfo,enable.kafka.quota,rabbitmq_run_log_enable,max.ssl.connections,route,message_trace_v2_enable,kafka.config.dynamic.modify.enable,feature.physerver.kafka.topic.modify.enable.topic.quota,kafka.ssl.cert.modify.enable,roma.user.manage.no.support,auto.create.groups.enable,feature.physerver.kafka.pulbic.dynamic,kafka.config.static.modify.enable",
"disk_encrypted" : false,
"ces_version" : "linux,v1,v2,v3,v4",
"new_spec_billing_enable" : true,
"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 Code

Status Code	Description
200	Successful

Error Code

See [Error Codes](#).

8.2.2 Managing Consumer Groups

8.2.2.1 Querying All Consumer Groups

Function

This API is used to query all consumer groups.

Call Method

For details, see [How to Call an API](#).

URI

GET /v2/{engine}/{project_id}/instances/{instance_id}/groups

Table 8-34 URI parameters

Parameter	Mandatory	Type	Description
engine	Yes	String	Indicates the message engine.
project_id	Yes	String	Project ID. For details, see Obtaining a Project ID .
instance_id	Yes	String	Instance ID.

Table 8-35 Query parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Offset, which is the position where the query starts. The value must be greater than or equal to 0.
limit	No	Integer	Maximum number of consumer group IDs returned in the current query. The default value is 10. The value ranges from 1 to 50.
group	No	String	Filtering consumer group names that contain specific keywords.
topic	No	String	If a topic is specified, only the consumer groups of the topic are queried.

Request

None.

Response

Status code: 200

Table 8-36 Response body parameters

Parameter	Type	Description
total	Number	Total number of consumer groups.

Parameter	Type	Description
groups	Array of ConsumerGroup objects	Consumer group list.
max	Integer	Maximum number of consumer groups that can be created.
remaining	Integer	Number of consumer groups that can still be created.
next_offset	Integer	Offset of the next page.
previous_offset	Integer	Offset of the previous page.

Table 8-37 ConsumerGroup

Parameter	Type	Description
enabled	Boolean	Whether consumption is allowed.
broadcast	Boolean	Whether to broadcast.
brokers	Array of strings	List of associated brokers.
name	String	Consumer group name. Enter 3 to 64 characters. Use only letters, digits, percent (%), vertical bars (), hyphens (-), and underscores (_).
group_desc	String	Consumer group description. 0 to 200 characters.
retry_max_time	Integer	Maximum number of retries. The value ranges from 1 to 16.
createdAt	Long	Creation timestamp.
permissions	Array of strings	Permission set.
consume_orderly	Boolean	Whether orderly consumption is enabled.

Example Request

```
GET https://{endpoint}/v2/{engine}/{project_id}/instances/{instance_id}/groups
```

Example Response

Status code: 200

Metrics queried successfully.

```
{
  "total" : 1,
```

```
"groups" : [ {  
    "name" : "group-1",  
    "enabled" : true,  
    "broadcast" : false,  
    "brokers" : [ "broker-0" ],  
    "createdAt" : 1709087952686,  
    "permissions" : [ ],  
    "retry_max_time" : 16,  
    "consume_orderly" : false  
},  
    "max" : 4000,  
    "remaining" : 3999,  
    "next_offset" : -1,  
    "previous_offset" : -1  
}]
```

Status Code

Status Code	Description
200	Successful

Error Code

See [Error Codes](#).

8.2.2.2 Updating Consumer Groups

Function

This API is used to update consumer groups.

Call Method

For details, see [How to Call an API](#).

URI

PUT /v2/{engine}/{project_id}/instances/{instance_id}/groups

Table 8-38 URI parameters

Parameter	Mandatory	Type	Description
engine	Yes	String	Engine.
project_id	Yes	String	Project ID. For details, see Obtaining a Project ID .
instance_id	Yes	String	Indicates the instance ID.

Request Parameters

None

Response Parameters

Status code: 200

Table 8-39 Response body parameter

Parameter	Type	Description
job_id	String	Background task ID.

Example Requests

```
PUT https://{endpoint}/v2/{engine}/{project_id}/instances/{instance_id}/groups
```

Example Response

Status code: 200

Operation succeeded.

```
{  
    "job_id" : "8a2c259182ab0e9d0182ab1882560010"  
}
```

Status Code

Status Code	Description
200	Successful

Error Code

See [Error Codes](#).

8.2.2.3 Modifying a Specified Consumer Group

Function

This API is used to modify a specified consumer group.

Call Method

For details, see [How to Call an API](#).

URI

```
PUT /v2/{engine}/{project_id}/instances/{instance_id}/groups/{group}
```

Table 8-40 URI parameters

Parameter	Mandatory	Type	Description
engine	Yes	String	Engine.
project_id	Yes	String	Project ID. For details, see Obtaining a Project ID .
instance_id	Yes	String	Indicates the instance ID.
group	Yes	String	Consumer group ID.

Request Parameters

None

Response Parameters

None

Example Requests

```
PUT https://{endpoint}/v2/{engine}/{project_id}/instances/{instance_id}/groups/{group}
```

Example Response

None

Status Code

Status Code	Description
200	Successful

Error Code

See [Error Codes](#).

8.2.2.4 Deleting a Consumer Group

Function

This API is used to delete a consumer group.

Call Method

For details, see [How to Call an API](#).

URI

DELETE /v2/{engine}/{project_id}/instances/{instance_id}/groups/{group}

Table 8-41 URI parameters

Parameter	Mandatory	Type	Description
engine	Yes	String	Engine.
project_id	Yes	String	Project ID. For details, see Obtaining a Project ID .
instance_id	Yes	String	Indicates the instance ID.
group	Yes	String	Consumer group ID.

Request Parameters

None

Response Parameters

None

Example Requests

DELETE https://{endpoint}/v2/{engine}/{project_id}/instances/{instance_id}/groups/{group}

Example Response

None

Status Code

Status Code	Description
200	Successful

Error Code

See [Error Codes](#).

9 Appendix

9.1 Status Code

Table 9-1 lists status codes.

Table 9-1 Status codes

Status Code	Name	Description
100	Continue	The server has received the initial part of the request and the client should continue to send the remaining part.
101	Switching Protocols	The requester has asked the server to switch protocols and the server has agreed to do so. The target protocol must be more advanced than the source protocol. For example, the current HTTP protocol is switched to a later version of HTTP.
200	OK	Request sent successfully.
201	Created	The request has been fulfilled, resulting in the creation of a new resource.
202	Accepted	The request has been accepted for processing, but the processing has not been completed.
203	Non-Authoritative Information	The request has been fulfilled.
204	NoContent	The server has successfully processed the request, but is not returning any response body. The status code is returned in response to an HTTP OPTIONS request.

Status Code	Name	Description
205	Reset Content	The server has fulfilled the request, but the requester is required to reset the content.
206	Partial Content	The server has successfully processed a part of the GET request.
300	Multiple Choices	There are multiple options for the requested resource. For example, this code could be used to present a list of resource characteristics and addresses from which the client such as a browser may choose.
301	Moved Permanently	This and all future requests have been permanently moved to the given URI indicated in this response.
302	Found	The requested resource was temporarily moved.
303	See Other	The response to the request can be found under another URI using a GET or POST method.
304	Not Modified	The requested resource has not been modified. When the server returns this status code, it does not return any resources.
305	Use Proxy	The requested resource is available only through a proxy.
306	Unused	This HTTP status code is no longer used.
400	BadRequest	Invalid request. The client should modify the request instead of re-initiating it.
401	Unauthorized	The authorization information provided by the client is incorrect or invalid.
402	Payment Required	Reserved for future use.
403	Forbidden	The server has received the request and understood it, but the server is refusing to respond to it. The client should modify the request instead of re-initiating it.
404	NotFound	The requested resource cannot be found. The client should modify the request instead of re-initiating it.

Status Code	Name	Description
405	MethodNotAllowed	A request method is not supported for the requested resource. The client should modify the request instead of re-initiating it.
406	Not Acceptable	The server cannot fulfill the request based on the content characteristics of the request.
407	Proxy Authentication Required	This code is similar to 401, but indicates that the client must first authenticate itself with the proxy.
408	Request Time-out	The server timed out when waiting for the request. The client may re-initiate the request without any modification at any time.
409	Conflict	The request cannot be processed due to a conflict, such as an edit conflict between multiple simultaneous updates or the resource that the client attempts to create already 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. The client should modify the request instead of re-initiating it.
504	ServerTimeout	The request cannot be fulfilled within a given time. The response will reach the client only if the request carries the timeout parameter.
505	HTTP Version not supported	The server does not support the HTTP protocol version used in the request.

9.2 Error Codes

If an error code starting with APIGW is returned after you call an API, rectify the fault by referring to the instructions provided in [API Gateway Error Codes](#).

Status Code	Error Codes	Error Message	Description	Solution
400	DMS.00400002	The project ID format is invalid.	Invalid project ID.	Check the project ID format.
400	DMS.00400004	The request body is empty.	The request body is empty.	Check the request body.

Status Code	Error Codes	Error Message	Description	Solution
400	DMS.00400005	The message body is not in JSON format or contains invalid characters.	Check the project ID format.	Check the message body format.
400	DMS.00400007	Unsupported type.	Unsupported type.	Check the type.
400	DMS.00400008	Unsupported version.	Unsupported version.	Check the version.
400	DMS.00400009	Invalid product_id.	Invalid product_id in the request.	Check the product_id parameter.
400	DMS.00400010	Invalid instance name. The name must be 4 to 64 characters long. Only letters, digits, underscores (_), and hyphens (-) are allowed.	Invalid instance name. The name must be 4 to 64 characters long. Only letters, digits, underscores (_), and hyphens (-) are allowed.	Check the instance name.
400	DMS.00400011	The instance description can contain a maximum of 1024 characters.	The instance description can contain a maximum of 1024 characters.	Check the instance description.

Status Code	Error Codes	Error Message	Description	Solution
400	DMS.00400012	Invalid password format.	The password does not meet the complexity requirements.	<p>Check whether the password meets the requirements.</p> <p>A password:</p> <ul style="list-style-type: none"> • Can contain 8 to 32 characters. • Must contain at least three of the following character types: letters, digits, and special characters `~!@#\$%^&*()_-+= [{}]:'", ./?` • Cannot be a weak password.
400	DMS.00400013	vpc_id in the request is empty.	Request parameter vpc_id is empty.	Check the vpc_id parameter.
400	DMS.00400014	security_group_id in the request is empty.	Request parameter security_group_id is empty.	Check the security_group_id parameter.
400	DMS.00400015	Invalid username. A username must be 4 to 64 characters long and consist of only letters, digits, and hyphens (-).	Invalid username. A username must be 4 to 64 characters long and consist of only letters, digits, and hyphens (-).	Check the username.
400	DMS.00400016	subnet_id in the request is empty.	Request parameter subnet_id is empty.	Check the subnet_id parameter.

Status Code	Error Codes	Error Message	Description	Solution
400	DMS.00400017	This DMS instance job task is still running.	A background task associated with this instance is running.	Try again later.
400	DMS.00400018	This subnet must exist in the VPC.	The subnet must exist in the VPC.	Check the subnet.
400	DMS.00400019	The password does not meet the complexity requirements.	The password does not meet the complexity requirements.	Check whether the password meets the requirements.
400	DMS.00400020	DHCP must be enabled for this subnet.	DHCP must be enabled for the subnet.	Check the DHCP status.
400	DMS.00400021	The isAutoRenew parameter in the request must be either 0 or 1.	Invalid isAutoRenew in the request.	Check the isAutoRenew parameter.
400	DMS.00400022	Engine does not match the product id.	The engine and product ID parameters do not match.	Check the engine parameter.
400	DMS.00400026	This operation is not allowed due to the instance status.	This operation is not allowed when the instance is in the current state.	Check the instance status.
400	DMS.00400028	Query advanced product, specCode not exists.	The specCode does not exist during the advanced feature query.	Check the origin_spec_code parameter.

Status Code	Error Codes	Error Message	Description	Solution
400	DMS.00400029	Query advanced product failed, can not find product for request.	The specCode does not exist during the advanced feature query.	Check the origin_spec_code parameter.
400	DMS.00400030	Invalid DMS instance id. The id must be a uuid.	Invalid instance ID.	Check the id parameter.
400	DMS.00400035	DMS instance quota of the tenant is insufficient.	Insufficient instance quota.	Apply for a higher quota.
400	DMS.00400037	The instanceParams parameter in the request contains invalid characters or is not in JSON format.	Request parameter instanceParams is not in JSON format or contains invalid characters.	Check the request parameter.
400	DMS.00400038	The periodNum parameter in the request must be an integer.	The periodNum parameter in the request must be an integer.	Check the periodNum parameter.
400	DMS.00400039	The quota limit has been reached.	The quota limit has been reached.	Apply for a higher quota.
400	DMS.00400042	The AZ does not exist.	The AZ does not exist.	Check the AZ.
400	DMS.00400045	The instance is not frozen and cannot be unfrozen.	The instance cannot be unfrozen because it is not frozen.	Check the instance status.
400	DMS.00400046	This security group does not exist.	The security group does not exist.	Check the security group.

Status Code	Error Codes	Error Message	Description	Solution
400	DMS.00400047	The periodType parameter in the request must be either 2 or 3.	Invalid periodType in the request.	Check the periodType parameter.
400	DMS.00400048	Invalid security group rules. Ensure that rules with the protocol being ANY are configured for both the inbound and outbound directions.	The security group must have both outbound and inbound rules with protocols set to ANY.	Check the security group rules.
400	DMS.00400049	The availability zone does not support ipv6.	The AZ does not support IPv6.	Select another AZ.
400	DMS.00400051	not found the new setup version tar to upgrade instance.	The package for upgrading the instance to the target version is not found.	Select another target version.
400	DMS.00400052	only the instance at running status can upgrade.	Only running instances can be upgraded.	Try again later.
400	DMS.00400053	the upgrade instance version equals to current version.	The target version is the same as the current version.	Select another target version.
400	DMS.00400055	Resource sold out.	Resources, such as ECS and volume resources, are insufficient.	Try again later.

Status Code	Error Codes	Error Message	Description	Solution
400	DMS.00400060	This instance name already exists.	The instance name already exists.	Check the instance name.
400	DMS.00400061	Invalid instance ID format.	Invalid instance ID.	Check the instance ID.
400	DMS.00400062	Invalid request parameter.	Invalid request parameters.	Check the request parameters.
400	DMS.00400063	Invalid configuration parameter {0}.	Invalid configuration parameter {0}.	Check the parameter.
400	DMS.00400064	The action parameter in the request must be delete or restart.	The action parameter in the request must be delete or restart.	Check the action parameter.
400	DMS.00400065	The instances parameter in the request is empty.	The instances parameter in the request is empty.	Check the instances parameter.
400	DMS.00400066	Invalid configuration parameter {0}.	Invalid configuration parameter {0}.	Check the parameter.
400	DMS.00400067	The available_zones parameter in the request must be an array that contains only one AZ ID.	Request parameter available_zones must be an array that contains only one AZ ID.	Check the available_zones parameter.
400	DMS.00400068	The VPC does not exist.	The VPC does not exist.	Check the VPC.
400	DMS.00400070	Invalid task ID format.	Invalid task ID.	Check the task ID.

Status Code	Error Codes	Error Message	Description	Solution
400	DMS.00400077	Insufficient IPs in the selected subnet.	Too few IP addresses in the selected subnet.	Select another subnet with sufficient IP addresses.
400	DMS.00400081	Duplicate instance name.	The instance name already exists.	Check the instance name.
400	DMS.00400082	Instance id is repeated.	The instance ID already exists.	Check the instance ID.
400	DMS.00400085	The message body contains invalid characters or is not in JSON format. The error key is <key>.	The message body is not in JSON format or contains invalid characters.	Check the message body.
400	DMS.00400099	The following instances in the Creating, Starting, Stopping, or Restarting state cannot be deleted.	Instances ([]) in the Creating, Starting, Stopping, or Restarting state cannot be deleted.	Check the instance status.
400	DMS.00400100	The instances array can contain a maximum of 50 instance IDs.	The instances array can contain a maximum of 50 instance IDs.	Check the instance quantity.

Status Code	Error Codes	Error Message	Description	Solution
400	DMS.00400101	The name of a Kafka topic must be 4 to 64 characters long and start with a letter. Only letters, digits, underscores (_), and hyphens (-) are allowed.	The name of a topic in a Kafka instance must be 4 to 64 characters long and start with a letter. Only letters, digits, underscores (_), and hyphens (-) are allowed.	Check the topic name.
400	DMS.00400102	The number of partitions created for a Kafka topic must be within the range of 1-200.	The number of partitions created for a topic in a Kafka instance must be within the range of 1-200.	Check the number of partitions of the topic.
400	DMS.00400103	The number of replicas created for a Kafka topic must be within the range of 1-20.	The number of replicas created for a topic in a Kafka instance must be within the range of 1-20.	Check the number of replicas of the topic.
400	DMS.00400105	The message retention period of a Kafka topic must be within the range of 1-168.	The aging time of a topic in a Kafka instance must be within the range of 1-168.	Check the aging time of the topic.
400	DMS.00400106	Invalid maintenance time window.	Invalid maintenance time window.	Check the maintenance time window parameter.

Status Code	Error Codes	Error Message	Description	Solution
400	DMS.00400107	The instance exists for unpaid scale up orders. Please process non payment orders first.	A specification modification order for the instance is pending.	Process the order first.
400	DMS.00400108	The Instance exists for processing scale up order. Please try again later.	A specification modification order for the instance is being processed.	Try again later.
400	DMS.00400124	The maximum number of disk expansion times has been reached.	The maximum number of disk expansion times has been reached.	Check the maximum number of disk expansion times.
400	DMS.00400125	Invalid SPEC_CODE.	Invalid SPEC_CODE.	Check SPEC_CODE.
400	DMS.00400126	Invalid period time.	Invalid time period for yearly/monthly billing.	Check the time period for yearly/monthly billing.
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.

Status Code	Error Codes	Error Message	Description	Solution
400	DMS.00400133	Sink task quota for connector invalid.	Invalid connector task quota.	Contact technical support.
400	DMS.00400134	There is another order need to pay first.	An unpaid order exists.	Pay for the order first.
400	DMS.00400135	Not support disk encrypted.	Disk encryption is not supported.	Do not enable disk encryption.
400	DMS.00400136	Disk encrypted key is null.	The disk encryption key is empty.	Check the disk encryption key.
400	DMS.00400137	Disk encrypted key state is not enabled.	The disk encryption key is not enabled.	Enable the disk encryption key.
400	DMS.00400142	Timestamp is invalid.	Timestamp is invalid.	Enter a correct timestamp.
400	DMS.00400500	Invalid disk space.	Invalid disk space.	Check the disk space.
400	DMS.00400800	Invalid request parameter. Check the request parameter.	Invalid request parameter.	Check the request parameters.
400	DMS.00400861	Replication factor larger than available brokers.	The number of replicas in the topic to be created is greater than the number of available brokers.	Contact technical support.
400	DMS.00400867	Failed to create the Smart Connect task.	Failed to create the Smart Connect task.	Contact technical support.

Status Code	Error Codes	Error Message	Description	Solution
400	DMS.00400868	Failed to stop the Smart Connect task.	Failed to stop the Smart Connect task.	Try again later.
400	DMS.00400869	Failed to start the Smart Connect task.	Failed to start the Smart Connect task.	Try again later.
400	DMS.00400870	Failed to verify the Smart Connect task.	Failed to verify the Smart Connect task.	Try again later.
400	DMS.00400872	Failed to restart the Smart Connect task.	Failed to restart the Smart Connect task.	Try again later.
400	DMS.00400873	Failed to modify the Smart Connect task.	Failed to modify the Smart Connect task.	Contact technical support.
400	DMS.00400874	The topic has been used in another Smart Connect task.	The topic has been used in another Smart Connect task.	Check the topic and try again.
400	DMS.00400876	The topic does not exist.	The topic does not exist.	Check the topic and try again.
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.

Status Code	Error Codes	Error Message	Description	Solution
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.
400	DMS.00500960	Invalid user AK/SK.	Invalid user AK/SK.	Correct the user AK/SK and try again.
400	DMS.00500978	Consumer group name exits.	Consumer group name exits.	Please check the consumer group name.
400	DMS.00500980	Partition reassigning.	Partition reassigning.	Please check partition reassignment.
400	DMS.00500982	Insufficient broker disk.	Insufficient broker disk.	Check target broker disk capacity.
400	DMS.00500986	Your account has been restricted.	Your account is suspended.	Contact the billing center.
400	DMS.00500987	Balance is not enough	Insufficient balance.	Top up your account and try again later.
400	DMS.10240002	The number of queried queues exceeds the upper limit.	The maximum number of queried queues has been reached.	Check the queue quantity.
400	DMS.10240004	The tag name is invalid.	Invalid tag name.	Check the tag name.
400	DMS.10240005	The project ID format is invalid.	Invalid project ID.	Check the project ID format.

Status Code	Error Codes	Error Message	Description	Solution
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.
400	DMS.10240011	The name length must be 1 to 64 characters.	The name can contain 1 to 64 characters.	Check the name length.
400	DMS.10240012	The name length must be 1 to 32 characters.	The name can contain 1 to 32 characters.	Check the name length.
400	DMS.10240013	The description length must not exceed 160 characters.	The description can contain a maximum of 160 characters.	Check the description length.
400	DMS.10240014	The number of consumable messages exceeds the maximum limit.	The number of consumable messages is not within the allowed range.	Check the number of consumable messages.
400	DMS.10240015	The queue ID format is invalid.	Invalid queue ID.	Check the queue ID.
400	DMS.10240016	The group ID format is invalid.	Invalid group ID.	Check the group ID.

Status Code	Error Codes	Error Message	Description	Solution
400	DMS.10240017	The queue already exists.	The queue already exists.	Check whether the queue exists.
400	DMS.10240018	The consumer group already exists.	The consumer group already exists.	Check whether the consumer group exists.
400	DMS.10240019	The number of consumer groups exceeds the upper limit.	The number of consumer groups exceeds the upper limit.	Check the number of consumer groups.
400	DMS.10240020	The quota is insufficient.	Insufficient quota.	Check the quota.
400	DMS.10240021	The value of time_wait is not within the value range of 1-60.	The value of time_wait is not within the range of 1-60.	Check the value of time_wait.
400	DMS.10240022	The value of max Consume Count must be within the range of 1-100.	The value of max Consume Count must be within the range of 1-100.	Check the value of max Consume Count.
400	DMS.10240027	The value of retention_hours must be an integer in the range of 1-72.	The value of retention_hours must be an integer in the range of 1-72.	Check the value of retention_hours.
400	DMS.10240028	Non-kafka queues do not support retention_hours.	Non-kafka queues do not support retention_hours.	Check whether the queue is a Kafka queue. If not, do not set retention_hours.
400	DMS.10240032	The queue is being created.	The queue is being created.	Check whether the queue is being created.
400	DMS.10240035	The tag key is empty or too long.	The tag key of the queue is empty or too long.	Check the tag key of the queue.

Status Code	Error Codes	Error Message	Description	Solution
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.
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.

Status Code	Error Codes	Error Message	Description	Solution
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.
400	DMS.10540010	The request format is incorrect	The request format is incorrect. {Error description}	Check the request format.
400	DMS.10540011	The message size is {message size}, larger than the size limit {max allowed size}.	The message size is {message size}, larger than the size limit {max allowed size}.	Check the request body size.
400	DMS.10540012	The message body is not in JSON format or contains invalid characters.	The message body is not in JSON format or contains invalid characters.	Check the message body format.
400	DMS.10540014	The URL contains invalid parameters.	The URL contains invalid parameters.	Check the URL parameters.
400	DMS.10540202	The request format is incorrect	The request format is incorrect. {Error description}	Check the request format.
400	DMS.10542204	Failed to consume messages due to {desc}.	Failed to consume messages. {Error description}	Check the error information and rectify the fault accordingly.

Status Code	Error Codes	Error Message	Description	Solution
400	DMS.10542205	Failed to obtain the consumption instance because the handler does not exist. This may be because the consumer instance is released 1 minute after the message is consumed. As a result, the consumer instance fails to be obtained from the handler.	Failed to obtain the consumption instance because the handler does not exist. This may be because the consumer instance is released 1 minute after the message is consumed.	Check the handler.
400	DMS.10542206	The value of ack_wait must be within the range of 15-300.	The value of ack_wait must be within the range of 15-300.	Check the value of ack_wait.
400	DMS.10542209	The handler does not exist because the handler fails to be parsed, the message consumption times out, or the message consumption is repeatedly acknowledged.	The handler does not exist because the handler fails to be parsed, the message consumption times out, or the message consumption is repeatedly acknowledged.	Check whether the handler or consumption acknowledgment times out.
400	DMS.10542214	The request format is incorrect	The request format is incorrect. {Error description}	Check the request format.

Status Code	Error Codes	Error Message	Description	Solution
400	DMS.111400860	Instance partition is not enough. Total partition is over the partition limitation.	Instance partition is not enough. Total partition is over the partition limitation.	Check whether the partition quantity is exceeded.
400	DMS.40001016	Invalid Kafka config for connector.	Invalid Kafka config for connector.	Check the configuration based on the error message and fix it.
400	DMS.40050005	Requested topic already exists.	Requested topic already exists.	Please check the requested topic.
400	DMS.40050015	Consumer group exits.	Consumer group exits.	Please check the consumer group.
400	DMS.50050004	The consumer group is offline.	The consumer group is offline.	Start the consumer instance in the consumer group.
401	DMS.10240101	Invalid token.	Invalid token.	Check whether the token is valid.
401	DMS.10240102	Expired token.	The token has expired.	Check whether the token has expired.
401	DMS.10240103	Missing token.	The token is missing.	Check whether the token is missing.
401	DMS.10240104	The project ID and token do not match.	The project ID and token do not match.	Check whether the project ID matches the token.
403	DMS.00403002	A tenant has the read-only permission and cannot perform operations on DMS.	You cannot perform operations on DMS because you only have read permissions.	Check the tenant permission.

Status Code	Error Codes	Error Message	Description	Solution
403	DMS.00403003	This role does not have the permissions to perform this operation.	This role does not have the permissions to perform this operation.	Check the role permission.
403	DMS.00403007	Authorization denied.	Action does not allow to performed.	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.10240311	This role does not have the permissions to perform this operation.	This role does not have the permissions required to perform operations on DMS.	Check the role permission.
403	DMS.10240312	The tenant is restricted and cannot perform operations on DMS.	The tenant is restricted and cannot perform operations on DMS.	Check the role permission.
404	DMS.00404001	The requested URL does not exist.	The requested URL does not exist.	Check the URL.
404	DMS.00404022	This instance does not exist.	The instance does not exist.	Check whether the instance exists.
404	DMS.00404024	Connector does not exist.	Connector does not exist.	Check the connector.
404	DMS.00404026	The dumping task does not exist.	The dumping task does not exist.	Check the dumping task.
404	DMS.00404027	Connector already exists.	Connector already exists.	Check the connector.
404	DMS.00404029	The dumping task quota has been reached.	The dumping task quota has been reached.	Check the dumping task quota.
404	DMS.10240401	The queue ID is incorrect or not found.	The queue ID is incorrect or is not found.	Check whether the queue ID exists and is correct.
404	DMS.10240405	The consumption group ID is incorrect or not found.	The consumption group ID is incorrect or is not found.	Check whether the consumer group ID exists and is correct.

Status Code	Error Codes	Error Message	Description	Solution
404	DMS.10240406	The URL or endpoint does not exist.	The URL or endpoint does not exist.	Check whether the URL or endpoint exists and is correct.
404	DMS.10240407	The request is too frequent. Flow control is being performed. Please try again later.	The request is sent too frequently and flow control is being performed. Please try again later.	Try again later.
404	DMS.10240426	No tag containing this key exists.	No tags containing this key exist.	Check the tag.
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.005000000	Internal service error.	Internal service error.	Contact technical support.
500	DMS.005000006	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.

Status Code	Error Codes	Error Message	Description	Solution
500	DMS.00500052	Internal service error.	Failed to submit the instance upgrade job.	Contact technical support.
500	DMS.00500053	Internal service error.	The specified instance node is not found.	Contact technical support.
500	DMS.00500054	Internal service error.	Failed to generate the password.	Contact technical support.
500	DMS.00500070	Internal service error.	Failed to configure the instance.	Contact technical support.
500	DMS.00500071	Internal service error.	Failed to create the instance backup policy.	Contact technical support.
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

Status Code	Error Codes	Error Message	Description	Solution
500	DMS.00501010	The product specification does not exist.	The product specification does not exist.	Contact technical support.
500	DMS.00501011	Failed to query the product ID from CBC.	Failed to query the product ID from CBC.	Contact technical support.
500	DMS.00501012	Smart Connect tasks exist.	Smart Connect tasks exist.	Delete all Smart Connect tasks.
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.
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

9.3 Instance Statuses

Table 9-2 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 Frozen and Running .
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 My Order .
FREEZING	The status between Running and Frozen .
UPGRADING	The instance is being upgraded.
ROLLBACK	The instance is being rolled back.
DELETING	The instance is being deleted.

9.4 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 management 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 9-1 Viewing a project ID

The screenshot shows the 'API Credentials' page under 'My Credentials'. The 'API Credentials' tab is selected and highlighted with a red box. In the 'Projects' section, there is a table with two rows. The first row has columns 'Project ID' (containing 'dcdaa...eb23') and 'Project Name' (containing 'cn-north-1'). The second row has columns 'Project ID' (containing 'f529632...c56f') and 'Project Name' (containing 'cn-north-4').

Project ID	Project Name
dcdaa...eb23	cn-north-1
f529632...c56f	cn-north-4

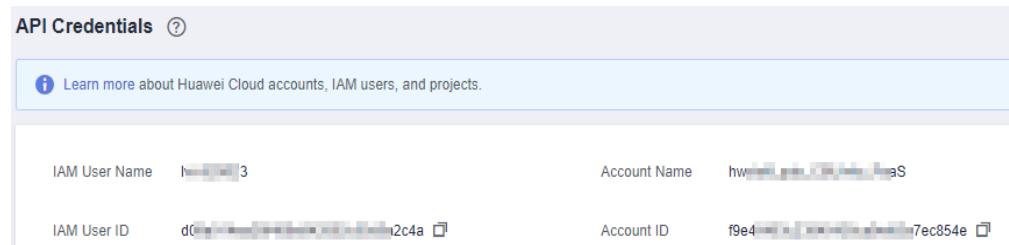
----End

9.5 Obtaining the Account Name and Account ID

The account name and account ID are required for some URLs when an API is called. The following procedure describes how to obtain the domain and domain ID:

1. Log in to the console.
2. 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 9-2 Viewing the account name and account ID



A Change History

Released On	Description
2025-06-20	This issue incorporates the following changes: <ul style="list-style-type: none">Added parameters proxy_enable, arch_type, and tls_mode in Creating an Instance.Added the API for enabling the domain name access to a RocketMQ instance.Added parameter queue in Querying Messages.Added the API for sending messages.Added APIs for instance diagnosis and background task management.Added the API for instance management.Added APIs for querying product specifications and querying vCPUs of a RocketMQ product flavor.
2024-07-05	This issue incorporates the following change: Added an example Creating Topics in Batches .
2023-12-15	This issue incorporates the following changes: Added the APIs for querying product information for instance specification modification and modifying instance specifications .
2023-06-06	This issue incorporates the following change: Added the APIs for creating a metadata migration task, querying a specified or all migration tasks of an instance, and deleting a metadata migration task.
2023-04-21	This issue incorporates the following change: Added the API for Querying the Consumer List .

Released On	Description
2023-02-17	This issue incorporates the following changes: <ul style="list-style-type: none">• Updated the URI for the Creating an Instance API.• Added the Adding or Deleting Instance Tags in Batches, Querying Instance Tags, and Querying Project Tags APIs.
2023-01-13	This issue incorporates the following change: Added the API for Querying the Topic List .
2022-06-30	This issue is the first official release.