

Distributed Message Service for RabbitMQ

API Reference

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1 Before You Start

Welcome to *Distributed Message Service for RabbitMQ*. *Distributed Message Service (DMS) for RabbitMQ* is a message middleware service using the distributed, high-availability clustering technology. It provides reliable, scalable, and fully managed queues for sending, receiving, and storing messages.

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

DMS for RabbitMQ 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](#).

Basic Concepts

- Account
An account has full access permissions for all of its cloud services and resources. It can be used to reset user passwords and grant user permissions. The account is a payment entity and should not be used directly to perform routine management. To ensure security, create Identity and Access Management (IAM) users and grant them permissions for routine management.
- User
An 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 where cloud resources are deployed. Availability zones (AZs) in the same region can communicate with each other over an intranet, while AZs in different regions are isolated from each other. Deploying cloud resources in different regions can better suit certain user requirements or comply with local laws or regulations.

- **Availability Zone (AZ)**
An availability zone (AZ) comprises one or more physical data centers equipped with independent ventilation, fire, water, and electricity facilities. Compute, network, storage, and other resources in an AZ are logically divided into multiple clusters. AZs within a region are interconnected using high-speed optical fibers to support cross-AZ high-availability systems.
- **Project**
A project corresponds to a region. Projects group and isolate resources (including compute, storage, and network resources) across physical regions. Users can be granted permissions in a default project to access all resources in the region associated with the project. For more refined access control, create subprojects under a project and purchase resources in the subprojects. Users can then be assigned permissions to access only specific resources in the subprojects.
- **Enterprise Project**
Enterprise projects group and manage resources across regions. Resources in enterprise projects are logically isolated from each other. An enterprise project can contain resources in multiple regions, and resources can be directly transferred between enterprise projects.

2 Calling APIs

2.1 Making an API Request

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

Request URI

A request URI is in the following format:

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

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

Table 2-1 Parameters in a URI

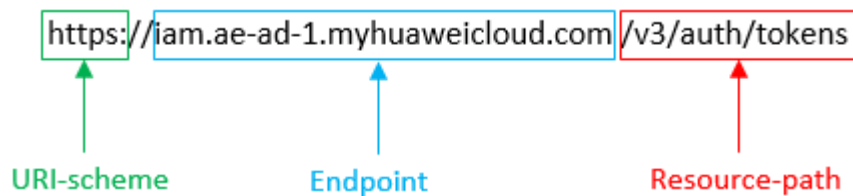
| Parameter | Description |
|---------------|--|
| URI-scheme | Protocol used to transmit requests. All APIs use HTTPS. |
| Endpoint | Domain name or IP address of the server bearing the REST service. The endpoint varies between services in different regions. It can be obtained from Regions and Endpoints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

| Parameter | Description |
|--------------|--|
| query-string | Query parameter, which is optional. Ensure that a question mark (?) is included before each query parameter that is in the format of <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 **ae-ad-1** region, obtain the endpoint of IAM (**iam.ae-ad-1.myhuaweicloud.com**) for this region and the resource-path (**/v3/auth/tokens**) in the URI of the API used for **obtaining a user token**. Then, construct the URI as follows:

```
https://iam.ae-ad-1.myhuaweicloud.com/v3/auth/tokens
```

Figure 2-1 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.

In the URI of the API for **creating an IAM user**, the request method is **POST**, so the request is:

```
POST https://iam.ae-ad-1.myhuaweicloud.com/v3/auth/tokens
```


Request Header

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

Table 2-2 lists the common request header fields.

Table 2-2 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 | e9993fc787d94b6c886cb aa340f9c0f4 |

| Name | Description | Mandatory | Example Value |
|--------------|--|--|--|
| X-Auth-Token | <p>User token.</p> <p>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.</p> <p>After the request is processed, the value of X-Subject-Token in the response header is the token value.</p> | <p>No</p> <p>Mandatory for token-based authentication.</p> | <p>The following is part of an example token:</p> <p>MIIPAgYJKoZIhvcNAQc-Co...ggg1BBIINPXsidG9rZ</p> |

 **NOTE**

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

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

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

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

Request Body (Optional)

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

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

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

 **NOTE**

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

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

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

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

2.2 Authentication

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

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

AK/SK-based Authentication

NOTE

AK/SK-based authentication supports API requests with a body not larger than 12 MB. For API requests with a larger body, token-based authentication is recommended.

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

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

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

NOTICE

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

Token-based Authentication

NOTE

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

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

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

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

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

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

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

```
POST https://iam.ae-ad-1.myhuaweicloud.com/v3/auth/projects
```

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

2.3 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](#).

If status code **201** is returned for the calling of the API for [obtaining a user token](#), the request is successful.

Response Header

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

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

NOTE

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

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

```
connection → keep-alive  
content-type → application/json  
date → Tue, 12 Feb 2019 06:52:13 GMT  
server → Web Server  
strict-transport-security → max-age=31536000; includeSubdomains;  
transfer-encoding → chunked  
via → proxy A  
x-content-type-options → nosniff  
x-download-options → noopen  
x-frame-options → SAMEORIGIN  
x-iam-trace-id → 218d45ab-d674-4995-af3a-2d0255ba41b5  
x-subject-token  
→ MIiYXQVJKoZlhvcNAQcCoIIYJCCGEoCAQExDTALBglghkgBZQMEAgEwgharBgkqhkiG9w0BBwGgghacBIIWmHsidG9rZW4iOnsiZXhwaXJlc19hdCI6IiwMTktMDItMTNUMD  
fj3KJ6YgKnpVNRbW2eZ5eb78SZOkqjACgklqQ1wi4JlGzrpd18LGXK5tdfdq4lqHCYb8P4NaY0NYejcAgzjVeFYtLWT1GS00zxKZmlQHq82HBqHdgIZO9fuEbL5dMhdavj+33wEI  
xHRC9I87o+k9-  
j+CMZSEB7bUGd5Uj6eRASXI1jipPEGA270g1FruooL6jqglFKNPQuFSOU8+uSsttVwRtnfsC+qTp22Rkd5MCqFGQ8LcuUxC3a+9CM8nOintWW7oeRUVhVpxk8pxiX1wTEboX-  
RzT6MUbpvGw-oPNFYxJECKnoH3HRozv0vN--n5d6Nbxg==  
x-xss-protection → 1; mode=block;
```

(Optional) Response Body

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

The response body for the API of [creating an IAM user](#) is shown as follows. The following shows part of the response body for the API to obtain a user token.

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

```

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

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

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

3 Getting Started

Scenarios

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

For details on how to call APIs, see [Calling APIs](#).

Prerequisites

- IAM endpoint obtained from [Regions and Endpoints](#).
- RabbitMQ endpoint obtained from [Regions and Endpoints](#).

Creating a RabbitMQ Instance

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

```
{
  "name": "rabbitmq",
  "engine": "rabbitmq",
  "engine_version": "3.8.35",
  "storage_space": 100,
  "access_user": "test",
  "password": "ZxxxA",
  "vpc_id": "eadxxx72c",
  "security_group_id": "aa75axxc8c73220",
  "subnet_id": "3cb6axxx671d6a8",
  "available_zones": [
    "effdcxxb42f56533"
  ],
  "product_id": "c6.2u4g.single",
  "storage_spec_code": "dms.physical.storage.ultra.v2"
}
```

- **name**: name of the instance.
- **engine**: message engine. The value is **rabbitmq**.
- **engine_version**: version of the message engine.
- **storage_space**: message storage space in GB. For details about the value range, see [Creating an Instance](#).
- **access_user**: user-defined username for logging in to RabbitMQ.
- **password**: user-defined password for logging in to RabbitMQ.

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

4 APIs V2 (Recommended)

4.1 Lifecycle Management

4.1.1 Creating an Instance

Function

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

URI

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

Table 4-1 Path Parameters

| Parameter | Mandatory | Type | Description |
|------------|-----------|--------|---|
| engine | Yes | String | Message engine. Default: rabbitmq |
| project_id | Yes | String | Project ID. For details, see Obtaining a Project ID . |

Request Parameters

Table 4-2 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 the instance. The description can contain a maximum of 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: rabbitmq . |
| engine_version | Yes | String | Version of the message engine. <ul style="list-style-type: none"> The RabbitMQ version can be 3.8.35. |
| storage_space | Yes | Integer | Message storage space in GB. Value range: <ul style="list-style-type: none"> Single-node RabbitMQ instance: 100–90,000 GB Cluster RabbitMQ instance: 100 GB x Number of nodes to 90,000 GB, 200 GB x Number of nodes to 90,000 GB, and 300 GB x Number of nodes to 90,000 GB |
| access_user | Yes | String | A username must start with a letter and only letters, digits, hyphens (-), and underscores (_) are allowed. It can contain 4 to 64 characters. |

| Parameter | Mandatory | Type | Description |
|-------------------|-----------|------------------|---|
| password | Yes | String | Instance password. The password must meet the following complexity requirements: <ul style="list-style-type: none"> • Contains 8 to 32 characters. • Contains at least two of the following character types: <ul style="list-style-type: none"> - Lowercase letters - Uppercase letters - Digits - Special characters `~!@#\$%^&*()-_+= []{}!'"<.>/?` |
| 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. |
| security_group_id | Yes | String | Security group ID. To obtain it, log in to the VPC console and view the security group ID on the security group details page. |
| subnet_id | Yes | String | Subnet ID. 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. |
| available_zones | Yes | Array of strings | ID of the AZ where instance brokers reside and which has available resources. Obtain the AZ ID by referring to Listing AZ Information . This parameter cannot be empty or null. |
| product_id | Yes | String | Product ID. You can obtain a product ID from Querying Product Specifications List . If the product is of the cluster type (that is, type is set to cluster), the broker_num field is mandatory. |

| Parameter | Mandatory | Type | Description |
|----------------|-----------|---------|--|
| broker_num | No | Integer | <p>Number of brokers.</p> <p>If the product is of the single-node type, there can be only 1 broker. If the product is of the cluster type, there can be 3, 5, or 7 brokers.</p> <p>If the product type is single:</p> <ul style="list-style-type: none"> • 1 <p>If the product type is cluster:</p> <ul style="list-style-type: none"> • 3 • 5 • 7 |
| maintain_begin | No | String | <p>Indicates the time at which a maintenance time window starts. Format: HH:mm.</p> <ul style="list-style-type: none"> • The start time and end time of the maintenance time window must indicate the time segment of a supported maintenance time window. • The start time must be set to 22:00, 02:00, 06:00, 10:00, 14:00, or 18:00. • The start time and end time must be set in pairs. If the start time is left blank, the end time must also be left blank. In this case, the system automatically sets the start time to 02:00. |

| Parameter | Mandatory | Type | Description |
|-----------------|-----------|---------|--|
| maintain_end | No | String | <p>Indicates the time at which a maintenance time window ends. Format: HH:mm.</p> <ul style="list-style-type: none"> • The start time and end time of the maintenance time window must indicate the time segment of a supported maintenance time window. • The end time is four hours later than the start time. For example, if the start time is 22:00, the end time is 02:00. • The start time and end time must be set in pairs. If the end time is left blank, the start time is also left blank. In this case, the system automatically sets the end time to 06:00. |
| enable_publicip | No | Boolean | <p>Whether to enable public access for the RabbitMQ instance.</p> <ul style="list-style-type: none"> • true: enable • false: disable |
| publicip_id | No | String | <p>ID of the EIP bound to the RabbitMQ instance. This parameter is mandatory if public access is enabled (that is, enable_publicip is set to true).</p> |
| ssl_enable | No | Boolean | <p>Whether to enable SSL encryption for access.</p> <ul style="list-style-type: none"> • true: enable • false: disable |

| Parameter | Mandatory | Type | Description |
|-----------------------|-----------|-----------------------------------|---|
| storage_spec_code | Yes | String | Storage I/O specification. Options: <ul style="list-style-type: none"> dms.physical.storage.high.v2 dms.physical.storage.ultra.v2 dms.physical.storage.high.dss.v2 (DeC) dms.physical.storage.ultra.dss.v2 (DeC) |
| enterprise_project_id | No | String | Enterprise project ID. This parameter is mandatory for an enterprise project account. |
| tags | No | Array of TagEntity objects | Tag list. |
| 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 4-3 TagEntity

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|---|
| key | No | String | Tag key, which: <ul style="list-style-type: none"> Must be specified. Must be unique for the same instance. Can contain a maximum of 36 characters. Cannot contain the following special characters: =*<>, / Cannot start or end with a space. |

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| value | No | String | <p>Tag value.</p> <ul style="list-style-type: none"> • Cannot be empty. • Can contain a maximum of 43 characters. • Cannot contain the following special characters: =*<>, / • Cannot start or end with a space. |

Table 4-4 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> |

| Parameter | Mandatory | Type | Description |
|-------------|-----------|---------|---|
| period_type | No | String | Subscription period type. Options: <ul style="list-style-type: none"> • month • year: **This parameter is valid and mandatory only when <code>chargingMode</code> is set to <code>prePaid</code>.** |
| period_num | No | Integer | Subscribed periods. Options: <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. **This parameter is valid and mandatory only when <code>chargingMode</code> is set to <code>prePaid</code>.** |
| order_id | No | String | This parameter can be used to specify an order number for creating a yearly/monthly instance. It is obtained from CBC. If this parameter is not specified, an order ID is automatically created. |

Response Parameters

Status code: 200

Table 4-5 Response body parameters

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

Example Requests

- Creating a pay-per-use RabbitMQ instance whose version is 3.8.35, specifications are 2 vCPUs | 4 GB x 1, and storage space is 100 GB
POST `https://{endpoint}/v2/{engine}/{project_id}/instances`


```
{
  "name": "rabbitmq-demo",
  "description": "",
  "engine": "RabbitMQ",
  "engine_version": "3.8.35",
  "storage_space": 100,
  "access_user": "*****",
  "password": "*****",
  "vpc_id": "1e93f86e-13af-46c8-97d6-d40fa62b76c2",
  "security_group_id": "0aaa0033-bf7f-4c41-a6c2-18cd04cad2c8",
  "subnet_id": "b5fa806c-35e7-4299-b659-b39398dd4718",
  "available_zones": [ "d573142f24894ef3bd3664de068b44b0" ],
  "product_id": "c6.2u4g.single",
  "ssl_enable": false,
  "enable_publicip": false,
  "publicip_id": "",
  "storage_spec_code": "dms.physical.storage.high.v2"
}
```

- Creating a yearly/monthly RabbitMQ instance whose version is 3.8.35, specifications are 2 vCPUs | 4 GB x 1, and storage space is 100 GB
POST https://endpoint/v2/engine/project_id/instances

```
{
  "name": "rabbitmq-demo",
  "description": "",
  "engine": "RabbitMQ",
  "engine_version": "3.8.35",
  "storage_space": 100,
  "access_user": "*****",
  "password": "*****",
  "vpc_id": "1e93f86e-13af-46c8-97d6-d40fa62b76c2",
  "security_group_id": "0aaa0033-bf7f-4c41-a6c2-18cd04cad2c8",
  "subnet_id": "b5fa806c-35e7-4299-b659-b39398dd4718",
  "available_zones": [ "d573142f24894ef3bd3664de068b44b0" ],
  "product_id": "c6.2u4g.single",
  "ssl_enable": false,
  "enable_publicip": false,
  "publicip_id": "",
  "storage_spec_code": "dms.physical.storage.high.v2",
  "bss_param": {
    "charging_mode": "prePaid",
    "period_type": "month",
    "period_num": 1,
    "is_auto_pay": true
  }
}
```

Example Responses

Status code: 200

Instance created successfully.

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

Status Codes

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

Error Codes

See [Error Codes](#).

4.1.2 Listing All Instances

Function

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

URI

GET /v2/{project_id}/instances

Table 4-6 Path Parameters

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

Table 4-7 Query Parameters

| Parameter | Mandatory | Type | Description |
|------------------|-----------|--------|--|
| engine | No | String | Message engine type. The value is rabbitmq . If this parameter is not specified, all instances will be queried. |
| name | No | String | Instance name. |
| instance_id | No | String | Instance ID. |
| status | No | String | Instance status. For details, see Instance Status . |
| include_failures | No | String | Whether to return the number of instances that fail to be created. If the value is true , the number of instances that failed to be created is returned. If the value is not true , the number is not returned. |

| Parameter | Mandatory | Type | Description |
|-----------------------|-----------|--------|---|
| exact_match_name | No | String | Whether to search for the instance that precisely matches a specified instance name. The default value is <i>false</i> , indicating that a fuzzy search is performed based on a specified instance name. If the value is true , the instance that precisely matches a specified instance name is queried. |
| enterprise_project_id | No | String | Enterprise project ID. |
| 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 | Maximum number of instances returned in the current query. The default value is 10 . The value ranges from 1 to 50. |

Request Parameters

None

Response Parameters

Status code: 200

Table 4-8 Response body parameters

| Parameter | Type | Description |
|--------------|---|----------------------|
| instances | Array of ShowInstanceResp objects | Instance list. |
| instance_num | Integer | Number of instances. |

Table 4-9 ShowInstanceResp

| Parameter | Type | Description |
|--------------------|---------|---|
| access_user | String | The username must be 4 to 64 characters long and can contain only letters, digits, and hyphens (-). |
| broker_num | Integer | Number of brokers. |
| name | String | Instance name. |
| engine | String | Message engine. |
| engine_version | String | Version of the message engine. |
| specification | String | Instance specifications. <ul style="list-style-type: none"> For a single-node RabbitMQ instance, VM specifications are returned. For a cluster RabbitMQ instance, VM specifications and the number of nodes are returned. |
| storage_space | Integer | Message storage space in GB. |
| used_storage_space | Integer | Used message storage space in GB. |
| connect_address | String | IP address of an instance. |
| port | Integer | Port of an instance. |
| status | String | Instance status. |
| description | String | Instance description |
| instance_id | String | Instance ID. |

| Parameter | Type | Description |
|--------------------|---------|---|
| resource_spec_code | String | Resource specification code. <ul style="list-style-type: none"> • dms.instance.rabbitmq.single.c3.2u4g: single-node RabbitMQ instance, 2 vCPUs 4 GB (VM specifications) • dms.instance.rabbitmq.single.c3.4u8g: single-node RabbitMQ instance, 4 vCPUs 8 GB (VM specifications) • dms.instance.rabbitmq.single.c3.8u16g: single-node RabbitMQ instance, 8 vCPUs 16 GB (VM specifications) • dms.instance.rabbitmq.single.c3.16u32g: single-node RabbitMQ instance, 16 vCPUs 32 GB (VM specifications) • dms.instance.rabbitmq.cluster.c3.4u8g.3: cluster RabbitMQ instance, 4 vCPUs 8 GB (VM specifications), 3 nodes • dms.instance.rabbitmq.cluster.c3.4u8g.5: cluster RabbitMQ instance, 4 vCPUs 8 GB (VM specifications), 5 nodes • dms.instance.rabbitmq.cluster.c3.4u8g.7: cluster RabbitMQ instance, 4 vCPUs 8 GB (VM specifications), 7 nodes • dms.instance.rabbitmq.cluster.c3.8u16g.3: cluster RabbitMQ instance, 8 vCPUs 16 GB (VM specifications), 3 nodes • dms.instance.rabbitmq.cluster.c3.8u16g.5: cluster RabbitMQ instance, 8 vCPUs 16 GB (VM specifications), 5 nodes • dms.instance.rabbitmq.cluster.c3.8u16g.7: cluster RabbitMQ instance, 8 vCPUs 16 GB (VM specifications), 7 nodes • dms.instance.rabbitmq.cluster.c3.16u32g.3: cluster RabbitMQ instance, 16 vCPUs 32 GB (VM specifications), 3 nodes • dms.instance.rabbitmq.cluster.c3.16u32g.5: cluster RabbitMQ instance, 16 vCPUs 32 GB (VM specifications), 5 nodes • dms.instance.rabbitmq.cluster.c3.16u32g.7: cluster RabbitMQ instance, 16 vCPUs 32 GB (VM specifications), 7 nodes |
| charging_mode | Integer | Billing mode. The value 1 means pay-per-use, and 0 means yearly/monthly. |
| vpc_id | String | VPC ID. |
| vpc_name | String | VPC name. |

| Parameter | Type | Description |
|----------------------------|---------|---|
| created_at | String | Time when an instance was created. The time is in the format of timestamp, that is, the offset milliseconds from 1970-01-01 00:00:00 UTC to the specified time. |
| user_id | String | User ID. |
| user_name | String | Username. |
| order_id | String | Order ID. This parameter has a value only when the billing mode is yearly/monthly. |
| maintain_begin | String | Time at which the maintenance time window starts. The format is HH:mm:ss. |
| maintain_end | String | Time at which the maintenance time window ends. The format is HH:mm:ss. |
| enable_publicip | Boolean | Whether to enable public access for the RabbitMQ instance. <ul style="list-style-type: none"> ● true: enable ● false: disable |
| publicip_address | String | EIP bound to the RabbitMQ instance. The value of this parameter is null if public access is disabled. |
| publicip_id | String | ID of the EIP bound to the RabbitMQ instance. The value of this parameter is null if public access is disabled. |
| management_connect_address | String | Management address of a RabbitMQ instance. |
| ssl_enable | Boolean | Whether security authentication is enabled. <ul style="list-style-type: none"> ● true: enabled ● false: disabled |
| enterprise_project_id | String | Enterprise project ID. |
| is_logical_volume | Boolean | Whether the instance is a new instance. This parameter is used to distinguish old instances from new instances during instance capacity expansion. <ul style="list-style-type: none"> ● true: New instance, which allows dynamic disk capacity expansion without restarting the instance. ● false: old instance |

| Parameter | Type | Description |
|------------------------|-----------------------------------|---|
| extend_times | Integer | Number of disk expansion times. If the value exceeds 20, disk expansion is no longer allowed. |
| type | String | Instance type. The value can be cluster . |
| product_id | String | Product ID. |
| security_group_id | String | Security group ID. |
| security_group_name | String | Security group name. |
| subnet_id | String | Subnet ID. |
| available_zones | Array of strings | AZ to which the instance nodes belong. The AZ ID is returned. |
| total_storage_space | Integer | Message storage space in GB. |
| storage_resource_id | String | Storage resource ID. |
| storage_spec_code | String | I/O specifications. |
| ipv6_enable | Boolean | Whether IPv6 is enabled. |
| ipv6_connect_addresses | Array of strings | IPv6 connection address. |
| tags | Array of TagEntity objects | Tag list. |

Table 4-10 TagEntity

| Parameter | Type | Description |
|-----------|--------|---|
| key | String | Tag key, which: <ul style="list-style-type: none"> • Must be specified. • Must be unique for the same instance. • Can contain a maximum of 36 characters. • Cannot contain the following special characters: =*<>, / • Cannot start or end with a space. |

| Parameter | Type | Description |
|-----------|--------|--|
| value | String | <p>Tag value.</p> <ul style="list-style-type: none"> • Cannot be empty. • Can contain a maximum of 43 characters. • Cannot contain the following special characters: =*<>, / • Cannot start or end with a space. |

Example Requests

Listing all instances

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

Example Responses

Status code: 200

All instances are listed successfully.

```
{
  "instances": [ {
    "name": "api-explorer",
    "engine": "rabbitmq",
    "port": 5672,
    "status": "RUNNING",
    "type": "single",
    "specification": "2vCPUs 4GB",
    "engine_version": "3.8.35",
    "connect_address": "192.168.0.74",
    "instance_id": "de873040-d661-4770-aa96-9329c71d7c8a",
    "resource_spec_code": "dms.instance.rabbitmq.single.c3.2u4g",
    "charging_mode": 1,
    "vpc_id": "40a6501e-85ca-4449-a0db-b8bc7f0cec28",
    "vpc_name": "vpc-a400",
    "created_at": "1590047080687",
    "product_id": "00300-30109-0--0",
    "security_group_id": "bfd68e26-f8ef-4a91-a373-0a8f5c198601",
    "security_group_name": "Sys-default",
    "subnet_id": "a7f9a564-30dd-4059-8124-364ca6554578",
    "available_zones": [ "9f1c5806706d4c1fb0eb72f0a9b18c77" ],
    "user_id": "3df5acbc24a54fadb62a043c9000a307",
    "user_name": "*****",
    "maintain_begin": "22:00:00",
    "maintain_end": "02:00:00",
    "storage_space": 88,
    "total_storage_space": 100,
    "used_storage_space": 4,
    "enable_publicip": false,
    "ssl_enable": false,
    "management_connect_address": "http://192.168.0.74:15672",
    "storage_resource_id": "52be287d-1d6a-4d30-937e-185b3f176fc4",
    "storage_spec_code": "dms.physical.storage.normal",
    "enterprise_project_id": "0",
    "tags": [ {
      "key": "key1",
      "value": "value1"
    }, {
      "key": "key2",
      "value": "value2"
    }
  ]
}
```



```
    } ],  
    "is_logical_volume" : true,  
    "extend_times" : 0,  
    "ipv6_enable" : false,  
    "ipv6_connect_addresses" : [ ]  
  } ],  
  "instance_num" : 1  
}
```

Status Codes

| Status Code | Description |
|-------------|--|
| 200 | All instances are listed successfully. |

Error Codes

See [Error Codes](#).

4.1.3 Querying an Instance

Function

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

URI

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

Table 4-11 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 4-12 Response body parameters

| Parameter | Type | Description |
|--------------------|---------|---|
| access_user | String | The username must be 4 to 64 characters long and can contain only letters, digits, and hyphens (-). |
| broker_num | Integer | Number of brokers. |
| name | String | Instance name. |
| engine | String | Message engine. |
| engine_version | String | Version of the message engine. |
| specification | String | Instance specifications. <ul style="list-style-type: none"> For a single-node RabbitMQ instance, VM specifications are returned. For a cluster RabbitMQ instance, VM specifications and the number of nodes are returned. |
| storage_space | Integer | Message storage space in GB. |
| used_storage_space | Integer | Used message storage space in GB. |
| connect_address | String | IP address of an instance. |
| port | Integer | Port of an instance. |
| status | String | Instance status. |
| description | String | Instance description |
| instance_id | String | Instance ID. |

| Parameter | Type | Description |
|--------------------|---------|---|
| resource_spec_code | String | Resource specification code. <ul style="list-style-type: none"> • dms.instance.rabbitmq.single.c3.2u4g: single-node RabbitMQ instance, 2 vCPUs 4 GB (VM specifications) • dms.instance.rabbitmq.single.c3.4u8g: single-node RabbitMQ instance, 4 vCPUs 8 GB (VM specifications) • dms.instance.rabbitmq.single.c3.8u16g: single-node RabbitMQ instance, 8 vCPUs 16 GB (VM specifications) • dms.instance.rabbitmq.single.c3.16u32g: single-node RabbitMQ instance, 16 vCPUs 32 GB (VM specifications) • dms.instance.rabbitmq.cluster.c3.4u8g.3: cluster RabbitMQ instance, 4 vCPUs 8 GB (VM specifications), 3 nodes • dms.instance.rabbitmq.cluster.c3.4u8g.5: cluster RabbitMQ instance, 4 vCPUs 8 GB (VM specifications), 5 nodes • dms.instance.rabbitmq.cluster.c3.4u8g.7: cluster RabbitMQ instance, 4 vCPUs 8 GB (VM specifications), 7 nodes • dms.instance.rabbitmq.cluster.c3.8u16g.3: cluster RabbitMQ instance, 8 vCPUs 16 GB (VM specifications), 3 nodes • dms.instance.rabbitmq.cluster.c3.8u16g.5: cluster RabbitMQ instance, 8 vCPUs 16 GB (VM specifications), 5 nodes • dms.instance.rabbitmq.cluster.c3.8u16g.7: cluster RabbitMQ instance, 8 vCPUs 16 GB (VM specifications), 7 nodes • dms.instance.rabbitmq.cluster.c3.16u32g.3: cluster RabbitMQ instance, 16 vCPUs 32 GB (VM specifications), 3 nodes • dms.instance.rabbitmq.cluster.c3.16u32g.5: cluster RabbitMQ instance, 16 vCPUs 32 GB (VM specifications), 5 nodes • dms.instance.rabbitmq.cluster.c3.16u32g.7: cluster RabbitMQ instance, 16 vCPUs 32 GB (VM specifications), 7 nodes |
| charging_mode | Integer | Billing mode. The value 1 means pay-per-use, and 0 means yearly/monthly. |
| vpc_id | String | VPC ID. |
| vpc_name | String | VPC name. |

| Parameter | Type | Description |
|----------------------------|---------|---|
| created_at | String | Time when an instance was created. The time is in the format of timestamp, that is, the offset milliseconds from 1970-01-01 00:00:00 UTC to the specified time. |
| user_id | String | User ID. |
| user_name | String | Username. |
| order_id | String | Order ID. This parameter has a value only when the billing mode is yearly/monthly. |
| maintain_begin | String | Time at which the maintenance time window starts. The format is HH:mm:ss. |
| maintain_end | String | Time at which the maintenance time window ends. The format is HH:mm:ss. |
| enable_publicip | Boolean | Whether to enable public access for the RabbitMQ instance. <ul style="list-style-type: none"> ● true: enable ● false: disable |
| publicip_address | String | EIP bound to the RabbitMQ instance. The value of this parameter is null if public access is disabled. |
| publicip_id | String | ID of the EIP bound to the RabbitMQ instance. The value of this parameter is null if public access is disabled. |
| management_connect_address | String | Management address of a RabbitMQ instance. |
| ssl_enable | Boolean | Whether security authentication is enabled. <ul style="list-style-type: none"> ● true: enabled ● false: disabled |
| enterprise_project_id | String | Enterprise project ID. |
| is_logical_volume | Boolean | Whether the instance is a new instance. This parameter is used to distinguish old instances from new instances during instance capacity expansion. <ul style="list-style-type: none"> ● true: New instance, which allows dynamic disk capacity expansion without restarting the instance. ● false: old instance |

| Parameter | Type | Description |
|------------------------|-----------------------------------|---|
| extend_times | Integer | Number of disk expansion times. If the value exceeds 20, disk expansion is no longer allowed. |
| type | String | Instance type. The value can be cluster . |
| product_id | String | Product ID. |
| security_group_id | String | Security group ID. |
| security_group_name | String | Security group name. |
| subnet_id | String | Subnet ID. |
| available_zones | Array of strings | AZ to which the instance nodes belong. The AZ ID is returned. |
| total_storage_space | Integer | Message storage space in GB. |
| storage_resource_id | String | Storage resource ID. |
| storage_spec_code | String | I/O specifications. |
| ipv6_enable | Boolean | Whether IPv6 is enabled. |
| ipv6_connect_addresses | Array of strings | IPv6 connection address. |
| tags | Array of TagEntity objects | Tag list. |

Table 4-13 TagEntity

| Parameter | Type | Description |
|-----------|--------|---|
| key | String | Tag key, which: <ul style="list-style-type: none"> • Must be specified. • Must be unique for the same instance. • Can contain a maximum of 36 characters. • Cannot contain the following special characters: =*<>, / • Cannot start or end with a space. |

| Parameter | Type | Description |
|-----------|--------|---|
| value | String | Tag value. <ul style="list-style-type: none"> • Cannot be empty. • Can contain a maximum of 43 characters. • Cannot contain the following special characters: =*<>, / • Cannot start or end with a space. |

Example Requests

Querying details of a specified instance

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

Example Responses

Status code: 200

The specified instance is queried successfully.

```
{
  "name": "api-explorer",
  "engine": "rabbitmq",
  "port": 5672,
  "status": "RUNNING",
  "type": "single",
  "specification": "2vCPUs 4GB",
  "engine_version": "3.8.35",
  "connect_address": "192.168.0.74",
  "instance_id": "de873040-d661-4770-aa96-9329c71d7c8a",
  "resource_spec_code": "dms.instance.rabbitmq.single.c3.2u4g",
  "charging_mode": 1,
  "vpc_id": "40a6501e-85ca-4449-a0db-b8bc7f0cec28",
  "vpc_name": "vpc-a400",
  "created_at": "1590047080687",
  "product_id": "00300-30109-0--0",
  "security_group_id": "bfd68e26-f8ef-4a91-a373-0a8f5c198601",
  "security_group_name": "Sys-default",
  "subnet_id": "a7f9a564-30dd-4059-8124-364ca6554578",
  "available_zones": [ "9f1c5806706d4c1fb0eb72f0a9b18c77" ],
  "user_id": "3df5acbc24a54fadb62a043c9000a307",
  "user_name": "paas_dms_pwx483199_01",
  "maintain_begin": "22:00:00",
  "maintain_end": "02:00:00",
  "storage_space": 88,
  "total_storage_space": 100,
  "used_storage_space": 4,
  "enable_publicip": false,
  "ssl_enable": false,
  "management_connect_address": "http://192.168.0.74:15672",
  "storage_resource_id": "52be287d-1d6a-4d30-937e-185b3f176fc4",
  "storage_spec_code": "dms.physical.storage.normal",
  "enterprise_project_id": "0",
  "tags": [ {
    "key": "key1",
    "value": "value1"
  }, {
    "key": "key2",
    "value": "value2"
  } ],
}
```

```
"is_logical_volume" : true,
"extend_times" : 0,
"ipv6_enable" : false,
"ipv6_connect_addresses" : [ ],
"broker_num" : 1,
"access_user" : "root_01"
}
```

Status Codes

| Status Code | Description |
|-------------|---|
| 200 | The specified instance is queried successfully. |

Error Codes

See [Error Codes](#).

4.1.4 Deleting an Instance

Function

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

URI

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

Table 4-14 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

None

Response Parameters

None

Example Requests

Deleting an instance

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

Example Responses

None

Status Codes

| Status Code | Description |
|-------------|---------------------------------------|
| 204 | The instance is deleted successfully. |

Error Codes

See [Error Codes](#).

4.1.5 Modifying Instance Information

Function

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

URI

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

Table 4-15 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 4-16 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 the instance.</p> <p>The description can contain a maximum of 1024 characters.</p> <p>NOTE</p> <p>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> |
| maintain_begin | No | String | <p>Time at which the maintenance window starts. The format is HH:mm:ss.</p> <ul style="list-style-type: none"> • The start time and end time of the maintenance time window must indicate the time segment of a supported maintenance time window. • The start time must be set to 22:00:00, 02:00:00, 06:00:00, 10:00:00, 14:00:00, or 18:00:00. • The start time and end time must be set in pairs. If the start time is left blank, the end time must also be left blank. In this case, the system automatically sets the start time to 02:00:00. |

| Parameter | Mandatory | Type | Description |
|-----------------------|-----------|---------|---|
| maintain_end | No | String | <p>Time at which the maintenance window ends. The format is HH:mm:ss.</p> <ul style="list-style-type: none"> The start time and end time of the maintenance time window must indicate the time segment of a supported maintenance time window. The end time is four hours later than the start time. For example, if the start time is 22:00:00, the end time is 02:00:00. The start time and end time must be set in pairs. If the end time is left blank, the start time is also left blank. In this case, the system automatically sets the end time to 06:00:00. |
| security_group_id | No | String | <p>Security group ID.</p> <p>To obtain it, log in to the VPC console and view the security group ID on the security group details page.</p> |
| enable_publicip | No | Boolean | <p>Whether to enable public access for the RabbitMQ instance.</p> <ul style="list-style-type: none"> true: enable false: disable |
| publicip_id | No | String | <p>ID of the EIP bound to a RabbitMQ instance.</p> <p>This parameter is mandatory if public access is enabled (that is, enable_publicip is set to true).</p> <p>Method: Log in to the Network Console, go to the EIPs page, click the specified EIP, and find the ID in the Basic Information area.</p> |
| enterprise_project_id | No | String | Enterprise project. |

Response Parameters

None

Example Requests

- Modifying the name and description of an instance.

```
PUT https://{endpoint}/v2/{project_id}/instances/{instance_id}
{
  "name": "rabbitmq-01",
  "description": "instance description"
}
```

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

```
PUT https://{endpoint}/v2/{project_id}/instances/{instance_id}
{
  "name": "rabbitmq-01",
  "description": "instance description",
  "maintain_begin": "02:00:00",
  "maintain_end": "06:00:00"
}
```

- Enabling public network access

```
PUT https://{endpoint}/v2/{project_id}/instances/{instance_id}
{
  "enable_publicip": true,
  "publicip_id": "32685c2b-xxxx-xxxx-86c6-a1902359xxxx"
}
```

Example Responses

None

Status Codes

| Status Code | Description |
|-------------|--|
| 204 | The instance is modified successfully. |

Error Codes

See [Error Codes](#).

4.1.6 Batch Deleting Instances

Function

This API is used to delete instances in batches.

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

URI

POST /v2/{project_id}/instances/action

Table 4-17 Path Parameters

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

Request Parameters

Table 4-18 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 | Whether to delete instances that fail to be created. If this parameter is set to rabbitmq , all instances that fail to be created are deleted. In this case, the instances parameter in the request can be empty. |

Response Parameters

Status code: 200

Table 4-19 Response body parameters

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

Table 4-20 results

| Parameter | Type | Description |
|-----------|--------|--|
| result | String | Operation result: <ul style="list-style-type: none"> ● success: The operation succeeded. ● failed: The operation failed. |
| instance | String | Instance ID. |

Example Requests

- Deleting instances in batches

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

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

- Deleting all instances that fail to be created

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

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

Example Responses

Status code: 200

Instances deleted.

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

Status Codes

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

Error Codes

See [Error Codes](#).

4.2 Instance Management

4.2.1 Resetting the Password

Function

This API is used to reset the password.

URI

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

Table 4-21 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 4-22 Request body parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| new_password | No | String | Use 8 to 32 characters. Contain at least three of the following character types: <ul style="list-style-type: none"> • Uppercase letters • Lowercase letters • Digits • Special characters `~!@#\$%^&*()-_+=\ []{};:'",<.>/?` and spaces, and cannot start with a hyphen (-). |

Response Parameters

None

Example Requests

Resetting a password

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

Example Responses

None

Status Codes

| Status Code | Description |
|-------------|-------------------------------------|
| 204 | The password is reset successfully. |

Error Codes

See [Error Codes](#).

4.2.2 Listing Plug-ins

Function

This API is used to list plug-ins.

URI

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

Table 4-23 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. |

Request Parameters

None

Response Parameters

Status code: 200

Table 4-24 Response body parameters

| Parameter | Type | Description |
|-----------|--------------------------------------|---------------------------|
| plugins | Array of PluginEntity objects | Plug-in information list. |

Table 4-25 PluginEntity

| Parameter | Type | Description |
|-----------|---------|---------------------------------|
| running | Boolean | Whether the plug-in is running. |
| enable | Boolean | Whether the plug-in is enabled. |
| name | String | Plug-in name. |
| version | String | Plug-in version. |

Example Requests

Querying the plug-in list

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

Example Responses

Status code: 200

The plug-ins are listed successfully.

```
{
  "plugins" : [ {
    "running" : true,
    "enable" : true,
    "name" : "rabbitmq_amqp1_0",
    "version" : "3.8.35"
  }, {
    "running" : true,
    "enable" : true,
    "name" : "rabbitmq_delayed_message_exchange",
    "version" : "3.8.0"
  }, {
    "running" : false,
    "enable" : false,
    "name" : "rabbitmq_federation",
    "version" : "3.8.35"
  }
]
```


Status Codes

| Status Code | Description |
|-------------|---------------------------------------|
| 200 | The plug-ins are listed successfully. |

Error Codes

See [Error Codes](#).

4.2.3 Enabling or Disabling a Plug-in

Function

This API is used to enable or disable a plug-in.

URI

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

Table 4-26 Path Parameters

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

Request Parameters

Table 4-27 Request body parameters

| Parameter | Mandatory | Type | Description |
|-----------|-----------|---------|--|
| enable | No | Boolean | Whether to enable the plug-in. |
| plugins | No | String | Plug-ins. Separated multiple plug-ins with commas (,). |

Response Parameters

Status code: 200

Table 4-28 Response body parameters

| Parameter | Type | Description |
|-----------|--------|---------------------|
| job_id | String | Background task ID. |

Example Requests

Enabling the rabbitmq_federation and rabbitmq_shovel plug-ins

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

```
{
  "enable" : true,
  "plugins" : "rabbitmq_federation,rabbitmq_shovel"
}
```

Example Responses

Status code: 200

The plug-in is enabled or disabled successfully.

```
{
  "job_id" : "8abfa7b27437db8f01744ea8ad4f245e"
}
```

Status Codes

| Status Code | Description |
|-------------|--|
| 200 | The plug-in is enabled or disabled successfully. |

Error Codes

See [Error Codes](#).

4.3 Specification Modification Management

4.3.1 Querying Product Information for Specification Modification of Instances with New Flavors

Function

This API is used to query the product information for specification modification of instances with new flavors.

URI

```
GET /v2/{engine}/{project_id}/instances/{instance_id}/extend
```

Table 4-29 Path Parameters

| Parameter | Mandatory | Type | Description |
|-------------|-----------|--------|--|
| engine | Yes | String | Message engine, which is rabbitmq . Default: rabbitmq |
| project_id | Yes | String | Project ID. For details, see Obtaining a Project ID . |
| instance_id | Yes | String | Instance ID. |

Table 4-30 Query Parameters

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|---|
| type | No | String | Product edition. <ul style="list-style-type: none"> • advanced: the premium edition • platinum: the platinum edition • dec: the dedicated cloud edition • exp: the experience edition |

Request Parameters

None

Response Parameters

Status code: 200

Table 4-31 Response body parameters

| Parameter | Type | Description |
|-----------|---|---|
| engine | String | Message engine. |
| versions | Array of strings | Versions supported by the message engine. |
| products | Array of RabbitMQExtProductInfoEntity objects | Product information for specification modification. |

Table 4-32 RabbitMQExtendProductInfoEntity

| Parameter | Type | Description |
|-------------------|---|--|
| type | String | Instance type. |
| product_id | String | Product ID. |
| ecs_flavor_id | String | ECS flavor used by the product. |
| arch_types | Array of strings | Supported CPU architectures. |
| charging_mode | Array of strings | Supported billing modes. |
| ios | Array of RabbitMQExtendProductInfoEntity objects | Disk I/O information. |
| properties | RabbitMQExtendProductPropertiesEntity 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 RabbitMQProductSupportFeaturesEntity objects | Supported features. |

Table 4-33 RabbitMQExtendProductIosEntity

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

Table 4-34 RabbitMQExtendProductPropertiesEntity

| Parameter | Type | Description |
|---------------------------|--------|---|
| max_broker | String | Maximum number of brokers. |
| max_storage_per_node | String | Maximum storage space of each broker. Unit: GB. |
| min_broker | String | Minimum number of brokers. |
| min_storage_per_node | String | Minimum storage space of each broker. Unit: GB. |
| max_connection_per_broker | String | Maximum number of connections. |
| step_length | String | Increment. |
| product_alias | String | Alias of product_id . |
| max_queue_per_broker | String | Maximum number of queues. |

Table 4-35 RabbitMQProductSupportFeaturesEntity

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

Example Requests

Querying product information for instance specification modification

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

Example Responses

Status code: 200

Successfully queried the product information for instance specification modification.

```
{
  "engine": "rabbitmq",
  "versions": [ "3.8.35" ],
  "products": [ {
    "type": "single",
    "product_id": "c6.2u4g.single",
    "ecs_flavor_id": "c6.large.2",
    "arch_types": [ "X86" ],
    "charging_mode": [ "monthly", "hourly" ],
    "ios": [ {
      "io_spec": "dms.physical.storage.ultra.v2",
```

```

"available_zones" : [ "xxx" ],
"type" : "evs",
"unavailable_zones" : [ "xxx" ]
}, {
  "io_spec" : "dms.physical.storage.high.v2",
  "available_zones" : [ "xxx" ],
  "type" : "evs",
  "unavailable_zones" : [ "xxx" ]
}],
"support_features" : [ ],
"properties" : {
  "max_connection_per_broker" : "2000",
  "max_broker" : "1",
  "max_queue_per_broker" : "100",
  "max_storage_per_node" : "30000",
  "min_broker" : "1",
  "product_alias" : "rabbitmq.2u4g.single",
  "step_length" : "0",
  "min_storage_per_node" : "100"
},
"available_zones" : [ "xxx" ],
"unavailable_zones" : [ ]
}, {
  "type" : "single",
  "product_id" : "c6.4u8g.single",
  "ecs_flavor_id" : "c6.xlarge.2",
  "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" : [ "xxx" ],
    "type" : "evs",
    "unavailable_zones" : [ "xxx" ]
  } ],
  "support_features" : [ ],
  "properties" : {
    "max_connection_per_broker" : "3000",
    "max_broker" : "1",
    "max_queue_per_broker" : "200",
    "max_storage_per_node" : "30000",
    "min_broker" : "1",
    "product_alias" : "rabbitmq.4u8g.single",
    "step_length" : "0",
    "min_storage_per_node" : "100"
  },
  "available_zones" : [ "xxx" ],
  "unavailable_zones" : [ ]
} ]
}

```

Status Codes

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

Error Codes

See [Error Codes](#).

4.3.2 Modifying Specifications of Instances with New Flavors

Function

This API is used to modify instance specifications.

URI

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

Table 4-36 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. |
| engine | Yes | String | Message engine, which is rabbitmq . Default: rabbitmq |

Request Parameters

Table 4-37 Request body parameters

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| oper_type | Yes | String | Type of the change. Value: storage : Expand the storage space without adding brokers. horizontal : Add brokers without resizing the storage space of each broker. vertical : Modify the underlying flavor of brokers without adding brokers or storage space. |

| Parameter | Mandatory | Type | Description |
|-------------------|-----------|---------|---|
| new_storage_space | No | Integer | <p>New storage space.</p> <p>This parameter is valid and mandatory when oper_type is set to storage or horizontal.</p> <p>Instance storage space = Number of brokers x Storage space of each broker.</p> <p>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.</p> <p>If oper_type is set to horizontal, the storage space of each broker remains unchanged.</p> |
| new_product_id | No | String | <p>Flavor, such as c6.8u16g.cluster. This parameter is valid and mandatory when oper_type is set to vertical.</p> |
| new_broker_number | No | Integer | <p>This parameter is valid only when oper_type is set to horizontal.</p> |
| new_spec_code | No | String | <p>Old flavor, such as dms.instance.rabbitmq.cluster.c3.8u16g. When oper_type is set to horizontal, the value is dms.instance.rabbitmq.cluster.c3.8u16g.5 (5 is the broker quantity.)</p> |

Response Parameters

Status code: 200

Table 4-38 Response body parameters

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

Example Requests

- Expanding the storage space (pay-per-use, old flavors). **new_spec_code** is the original specification.

```
POST https://{endpoint}/{engine}/v2/{project_id}/instances/{instance_id}/extend
{
  "new_storage_space" : 600,
  "oper_type" : "storage",
  "new_spec_code" : "dms.instance.rabbitmq.cluster.c3.2u4g.3"
}
```

- Adding brokers (pay-per-use, old flavors). **new_storage_space** is the space of the original specification. **new_spec_code** is **dms.instance.rabbitmq.cluster.c3.2u4g.5** (5 is the broker quantity.)

```
POST https://{endpoint}/{engine}/v2/{project_id}/instances/{instance_id}/extend
{
  "new_storage_space" : 600,
  "oper_type" : "horizontal",
  "new_spec_code" : "dms.instance.rabbitmq.cluster.c3.2u4g.5"
}
```

- Increasing broker flavors (pay-per-use, old flavors). For **new_spec_code**, replace the original specification with the new one. For example, replace 2u4g with 4u8g.

```
POST https://{endpoint}/{engine}/v2/{project_id}/instances/{instance_id}/extend
{
  "new_storage_space" : 600,
  "oper_type" : "vertical",
  "new_spec_code" : "dms.instance.rabbitmq.cluster.c3.2u4g.5"
}
```

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

```
POST https://{endpoint}/{engine}/v2/{project_id}/instances/{instance_id}/extend
{
  "new_storage_space" : 600,
  "oper_type" : "storage"
}
```

- Adding brokers (pay-per-use)

```
POST https://{endpoint}/{engine}/v2/{project_id}/instances/{instance_id}/extend
{
  "oper_type" : "horizontal",
  "new_storage_space" : 500,
  "new_broker_num" : 5
}
```

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

```
POST https://{endpoint}/v2/{engine}/{project_id}/instances/{instance_id}/extend
{
  "oper_type" : "vertical",
  "new_product_id" : "c6.4u8g.cluster"
}
```

Example Responses

Status code: 200

Instance specifications are modified successfully.

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

Status Codes

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

Error Codes

See [Error Codes](#).

4.4 Background Task Management

4.4.1 Listing Background Tasks

Function

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

URI

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

Table 4-39 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. |

Table 4-40 Query Parameters

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

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| end_time | No | String | Time of task where the query ends. The format is YYYYMMDDHHmmss. |

Request Parameters

None

Response Parameters

Status code: 200

Table 4-41 Response body parameters

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

Table 4-42 tasks

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

Example Requests

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

Example Responses

Status code: 200

The tasks are listed successfully.

```
{
  "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 | The tasks are listed successfully. |

Error Codes

See [Error Codes](#).

4.4.2 Querying a Background Task

Function

This API is used to query a specified background task.

URI

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

Table 4-43 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. |
| task_id | Yes | String | Task ID. |

Request Parameters

None

Response Parameters

Status code: 200

Table 4-44 Response body parameters

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

Table 4-45 tasks

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

Example Requests

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

Example Responses

Status code: 200

The query is 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 | The query is successful. |

Error Codes

See [Error Codes](#).

4.4.3 Deleting a Background Task

Function

This API is used to delete a specified background task.

URI

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

Table 4-46 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. |
| task_id | Yes | String | Task ID. |

Request Parameters

None

Response Parameters

None

Example Requests

Deleting a specified background task

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

Example Responses

None

Status Codes

| Status Code | Description |
|-------------|--|
| 204 | The background task is deleted successfully. |

Error Codes

See [Error Codes](#).

4.5 Tag Management

4.5.1 Batch Adding or Deleting Tags

Function

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

URI

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

Table 4-47 Path Parameters

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

Request Parameters

Table 4-48 Request body parameters

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--|---|
| action | No | String | Operation. Only lowercase letters are supported. <ul style="list-style-type: none"> create: Tags are created. delete: Tags are deleted. |
| tags | No | Array of TagEntity objects | Tag list. |

Table 4-49 TagEntity

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|---|
| key | No | String | Tag key, which: <ul style="list-style-type: none"> • Must be specified. • Must be unique for the same instance. • Can contain a maximum of 36 characters. • Cannot contain the following special characters: =*<>, / • Cannot start or end with a space. |
| value | No | String | Tag value. <ul style="list-style-type: none"> • Cannot be empty. • Can contain a maximum of 43 characters. • Cannot contain the following special characters: =*<>, / • Cannot start or end with a space. |

Response Parameters

None

Example Requests

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

```
POST https://{endpoint}/v2/{project_id}/rabbitmq/{instance_id}/tags/action
{
  "action": "create",
  "tags": [ {
    "key": "key1",
    "value": "value1"
  }, {
    "key": "key2",
    "value": "value2"
  } ]
}
```


Example Responses

None

Status Codes

| Status Code | Description |
|-------------|---|
| 204 | Tags are successfully added or deleted. |

Error Codes

See [Error Codes](#).

4.5.2 Listing Tags of an Instance

Function

This API is used to query instance tags.

URI

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

Table 4-50 Path Parameters

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

Request Parameters

None

Response Parameters

Status code: 200

Table 4-51 Response body parameters

| Parameter | Type | Description |
|-----------|-----------------------------------|-------------|
| tags | Array of TagEntity objects | Tag list. |

Table 4-52 TagEntity

| Parameter | Type | Description |
|-----------|--------|---|
| key | String | Tag key, which: <ul style="list-style-type: none"> • Must be specified. • Must be unique for the same instance. • Can contain a maximum of 36 characters. • Cannot contain the following special characters: =*<>, / • Cannot start or end with a space. |
| value | String | Tag value. <ul style="list-style-type: none"> • Cannot be empty. • Can contain a maximum of 43 characters. • Cannot contain the following special characters: =*<>, / • Cannot start or end with a space. |

Example Requests

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

Example Responses

Status code: 200

The instance tags are listed successfully.

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

Status Codes

| Status Code | Description |
|-------------|--|
| 200 | The instance tags are listed successfully. |

Error Codes

See [Error Codes](#).

4.5.3 Listing Tags of a Project

Function

This API is used to query project tags.

URI

GET /v2/{project_id}/rabbitmq/tags

Table 4-53 Path Parameters

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

Request Parameters

None

Response Parameters

Status code: 200

Table 4-54 Response body parameters

| Parameter | Type | Description |
|-----------|--|-------------|
| tags | Array of TagMultyValueEntity objects | Tag list. |

Table 4-55 TagMultyValueEntity

| Parameter | Type | Description |
|-----------|------------------|-------------|
| key | String | Tag key. |
| values | Array of strings | Tag value |

Example Requests

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

Example Responses

Status code: 200

The project tags are listed successfully.

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

Status Codes

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

Error Codes

See [Error Codes](#).

4.6 Other APIs

4.6.1 Listing Maintenance Time Windows

Function

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

URI

```
GET /v2/instances/maintain-windows
```

Request Parameters

None

Response Parameters

Status code: 200

Table 4-56 Response body parameters

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

Table 4-57 MaintainWindowsEntity

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

Example Requests

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

Example Responses

Status code: 200

Maintenance time window queried successfully.

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

```

}, {
  "default" : false,
  "seq" : 4,
  "begin" : "10",
  "end" : "14"
}, {
  "default" : false,
  "seq" : 5,
  "begin" : "14",
  "end" : "18"
}, {
  "default" : false,
  "seq" : 6,
  "begin" : "18",
  "end" : "22"
}
}
}

```

Status Codes

| Status Code | Description |
|-------------|---|
| 200 | Maintenance time window queried successfully. |

Error Codes

See [Error Codes](#).

4.6.2 Listing AZ Information

Function

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

URI

GET /v2/available-zones

Request Parameters

None

Response Parameters

Status code: 200

Table 4-58 Response body parameters

| Parameter | Type | Description |
|-----------|--------|-------------|
| region_id | String | Region ID. |

| Parameter | Type | Description |
|-----------------|--|---------------|
| available_zones | Array of available_zones objects | Array of AZs. |

Table 4-59 available_zones

| Parameter | Type | Description |
|-----------------------|---------|--|
| soldOut | Boolean | Whether resources are sold out. |
| id | String | AZ ID. |
| code | String | AZ code. |
| name | String | AZ name. |
| port | String | AZ port. |
| resource_availability | String | Whether there are available resources in the AZ. |
| 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}/v2/available-zones
```

Example Responses

Status code: 200

The AZ information is queried successfully.

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

```
"default_az" : false,
"remain_time" : 9223372036854776000,
"ipv6_enable" : false
}]
}
```

Status Codes

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

Error Codes

See [Error Codes](#).

4.6.3 Querying Product Specifications

Function

This API is used to query the product specifications.

URI

GET /v2/{engine}/products

Table 4-60 Path Parameters

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|---|
| engine | Yes | String | Message engine. Default: rabbitmq |

Table 4-61 Query Parameters

| Parameter | Mandatory | Type | Description |
|------------|-----------|--------|-------------|
| product_id | No | String | Product ID. |

Request Parameters

None

Response Parameters

Status code: 200

Table 4-62 Response body parameters

| Parameter | Type | Description |
|-----------|---|--------------------------------|
| engine | String | Message engine of DMS. |
| versions | Array of strings | Supported versions. |
| products | Array of ListEngineProductsEntity objects | Product specification details. |

Table 4-63 ListEngineProductsEntity

| Parameter | Type | Description |
|------------------|--|--|
| type | String | Product type. Currently, single-node and cluster types are supported. |
| product_id | String | Product ID. |
| ecs_flavor_id | String | ECS flavor. |
| billing_code | String | Billing mode. |
| arch_types | Array of strings | CPU architecture. |
| charging_mode | Array of strings | Billing mode. <ul style="list-style-type: none"> ● monthly: yearly/monthly ● hourly: pay-per-use |
| ios | Array of ListEngineIosEntity objects | List of supported disk I/O types. |
| support_features | Array of objects | List of features supported by instances of the current specifications. |
| properties | ListEnginePropertiesEntity object | Attribute of instances of the current specifications. |

Table 4-64 ListEngineIosEntity

| Parameter | Type | Description |
|-----------|--------|----------------|
| io_spec | String | Disk I/O code. |
| type | String | Disk type. |

| Parameter | Type | Description |
|-------------------|------------------|------------------|
| available_zones | Array of strings | AZs. |
| unavailable_zones | Array of strings | Unavailable AZs. |

Table 4-65 ListEnginePropertiesEntity

| Parameter | Type | Description |
|---------------------------|--------|---|
| step_length | String | Node quantity increase step. |
| max_queue_per_broker | String | Maximum number of queues on each broker. |
| max_connection_per_broker | String | Maximum number of connections on each broker. |
| max_partition_per_broker | String | Maximum number of partitions of each broker. |
| max_broker | String | Maximum number of brokers. |
| max_storage_per_node | String | Maximum storage space of each broker. Unit: GB. |
| max_consumer_per_broker | String | Maximum number of consumers of each broker. |
| min_broker | String | Minimum number of brokers. |
| max_bandwidth_per_broker | String | Maximum bandwidth of each broker. |
| min_storage_per_node | String | Minimum storage space of each broker. Unit: GB |
| max_tps_per_broker | String | Maximum TPS of each broker. |
| product_alias | String | Alias of product_id . |

Example Requests

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

Example Responses

Status code: 200

Product specifications are queried successfully.

```
{
  "engine": "rabbitmq",
```

```

"versions" : [ "3.8.35" ],
"products" : [ {
  "type" : "single",
  "product_id" : "c6.2u4g.single",
  "ecs_flavor_id" : "c6.large.2",
  "billing_code" : "dms.platinum.c6",
  "arch_types" : [ "X86" ],
  "charging_mode" : [ "monthly", "hourly" ],
  "ios" : [ {
    "io_spec" : "dms.physical.storage.ultra.v2",
    "type" : "evs",
    "available_zones" : [ "xxx" ],
    "unavailable_zones" : [ "xxx" ]
  }, {
    "io_spec" : "dms.physical.storage.high.v2",
    "type" : "evs",
    "available_zones" : [ "xxx" ],
    "unavailable_zones" : [ "xxx" ]
  } ],
  "support_features" : [ ],
  "properties" : {
    "max_connection_per_broker" : "2000",
    "max_broker" : "1",
    "max_queue_per_broker" : "100",
    "max_storage_per_node" : "30000",
    "min_broker" : "1",
    "step_length" : "0",
    "min_storage_per_node" : "200",
    "product_alias" : "rabbitmq.2u4g.single"
  }
}, {
  "type" : "cluster",
  "product_id" : "c6.4u8g.cluster",
  "ecs_flavor_id" : "c6.xlarge.2",
  "billing_code" : "dms.platinum.c6",
  "arch_types" : [ "X86" ],
  "charging_mode" : [ "monthly", "hourly" ],
  "ios" : [ {
    "io_spec" : "dms.physical.storage.high.v2",
    "type" : "evs",
    "available_zones" : [ "xxx" ],
    "unavailable_zones" : [ "xxx" ]
  }, {
    "io_spec" : "dms.physical.storage.ultra.v2",
    "type" : "evs",
    "available_zones" : [ "xxx" ],
    "unavailable_zones" : [ "xxx" ]
  } ],
  "support_features" : [ ],
  "properties" : {
    "max_connection_per_broker" : "4500",
    "max_broker" : "7",
    "max_queue_per_broker" : "400",
    "max_storage_per_node" : "30000",
    "min_broker" : "3",
    "step_length" : "2",
    "min_storage_per_node" : "100",
    "product_alias" : "rabbitmq.4u8g.cluster"
  }
} ]
}

```

Status Codes

| Status Code | Description |
|-------------|--|
| 200 | Product specifications are queried successfully. |

Error Codes

See [Error Codes](#).

5 Permissions and Supported Actions

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

By default, new IAM users do not have 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 services based on the permissions.

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

NOTE

You can use policies to allow or deny access to specific APIs.

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 that have been granted permissions allowing the actions can call the API successfully. For example, if an IAM user creates a RabbitMQ instance using an API, the user must have been granted permissions that allow the **dms:instance:create** action.

Supported Actions

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

- **Permission:** A statement in a policy that allows or denies certain operations.
- **APIs:** REST APIs that can be called in a custom policy.
- **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 supporting both IAM and enterprise projects can be assigned to user groups and take effect in both IAM and Enterprise Management. Policies that only contain actions supporting IAM projects can be assigned to user groups and only take effect for IAM. Such policies will not take effect if they are assigned to user groups in Enterprise Management.

DMS for RabbitMQ supports the following actions that can be defined in custom policies. Permissions must be obtained before calling DMS APIs. For details on how to obtain permissions, visit the Identity and Access Management help center.

Table 5-1 DMS for RabbitMQ actions

| Permissions | APIs | Actions | IAM Projects | Enterprise Projects |
|---------------------------------|---|---------------------|--------------|---------------------|
| Creating an Instance | POST /v2/{project_id}/instances | dms:instance:create | √ | √ |
| Deleting an Instance | DELETE /v2/{project_id}/instances/{instance_id} | dms:instance:delete | √ | √ |
| Modifying an Instance | PUT /v2/{project_id}/instances/{instance_id} | dms:instance:modify | √ | √ |
| Querying an Instance | GET /v2/{project_id}/instances/{instance_id} | dms:instance:get | √ | √ |
| Deleting Instances in Batches | POST /v2/{project_id}/instances/action | dms:instance:delete | √ | √ |
| Listing All Instances | GET /v2/{project_id}/instances | dms:instance:list | √ | √ |
| Listing Plugins | GET /v2/{project_id}/instances/{instance_id}/rabbitmq/plugins | dms:instance:list | √ | √ |
| Enabling or Disabling a Plug-in | PUT /v2/{project_id}/instances/{instance_id}/rabbitmq/plugins | dms:instance:modify | √ | √ |

| Permissions | APIs | Actions | IAM Projects | Enterprise Projects |
|---|--|-----------------------------------|--------------|---------------------|
| Resetting a Password | POST /v2/{project_id}/instances/{instance_id}/password | dms:instance:resetAuthInfo | √ | √ |
| Modifying Instance Specifications | POST /v2/{project_id}/instances/{instance_id}/extend | dms:instance:scale | √ | √ |
| Listing Background Tasks | GET /v2/{project_id}/instances/{instance_id}/tasks | dms:instance:getBackgroundTask | √ | √ |
| Querying a Background Task | GET /v2/{project_id}/instances/{instance_id}/tasks/{task_id} | dms:instance:getBackgroundTask | √ | √ |
| Deleting a Background Task | GET /v2/{project_id}/instances/{instance_id}/tasks/{task_id} | dms:instance:deleteBackgroundTask | √ | √ |
| Adding or Deleting Instance Tags in Batches | POST /v2/{project_id}/rabbitmq/{instance_id}/tags/action | dms:instance:modify | √ | √ |
| Listing Tags of an Instance | GET /v2/{project_id}/rabbitmq/{instance_id}/tags | dms:instance:get | √ | √ |
| Querying Project Tags | GET /v2/{project_id}/rabbitmq/tags | dms:instance:get | √ | √ |
| Enabling or Disabling Public Access | PUT /v2/{project_id}/instances/{instance_id} | dms:instance:modify | √ | √ |

6 Out-of-Date APIs

6.1 APIs V1

6.1.1 APIs for Managing Instances

6.1.1.1 Creating an Instance

 NOTE

This API is an out-of-date version and may not be maintained in the future. Please use the API described in [Creating an Instance](#).

Function

This API is used to create an instance.

URI

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

[Table 6-1](#) describes the parameter.

Table 6-1 Parameter description

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

Request

Request parameters

[Table 6-2](#) describes the request parameters.

Table 6-2 Parameter description

| Parameter | Type | Mandatory | Description |
|----------------|---------|-----------|---|
| name | String | Yes | Indicates the instance name. An instance name starts with a letter, consists of 4 to 64 characters, and supports only letters, digits, and hyphens (-). |
| description | String | No | Indicates the description of an instance. It is a character string containing not more than 1024 characters. NOTE The backslash (\) and quotation mark (") are special characters for JSON packets. When using these characters in a parameter value, add the escape character (\) before these characters, for example, \\ and \". |
| engine | String | Yes | Indicates the message engine. Value: rabbitmq |
| engine_version | String | No | Indicates the version of the message engine. |
| storage_space | Integer | Yes | Indicates the message storage space. Unit: GB <ul style="list-style-type: none"> Single-node RabbitMQ instance: 100–90,000 GB Cluster RabbitMQ instance: 100 GB x Number of nodes to 90,000 GB, 200 GB x Number of nodes to 90,000 GB, and 300 GB x Number of nodes to 90,000 GB |
| access_user | String | Yes | Indicates a username. A username consists of 4 to 64 characters and supports only letters, digits, and hyphens (-). |
| password | String | Yes | Indicates an instance password. An instance password must meet the following complexity requirements: <ul style="list-style-type: none"> Must be a string consisting of 8 to 32 characters. Must contain at least two of the following character types: <ul style="list-style-type: none"> Lowercase letters Uppercase letters Digits Special characters `~!@#\$\$%^&*()-_+=\ [{}];:','<.>/? |

| Parameter | Type | Mandatory | Description |
|-------------------|--------|-----------|--|
| vpc_id | String | Yes | Indicates the ID of a VPC. |
| security_group_id | String | Yes | Indicates the ID of a security group. |
| subnet_id | String | Yes | Indicates the ID of a subnet. |
| available_zones | Array | Yes | Indicates the ID of an AZ. The parameter value cannot be an empty array or an empty array. For details, see Querying AZ Information . |
| product_id | String | Yes | Indicates the product ID. For details, see Querying Product Specifications . |
| maintain_begin | String | No | Indicates the time at which a maintenance time window starts. Format: HH:mm. <ul style="list-style-type: none"> The start time and end time of the maintenance time window must indicate the time segment of a supported maintenance time window. For details about how to query the time segments of supported maintenance time windows, see Querying Maintenance Time Windows. The start time must be set to 22:00, 02:00, 06:00, 10:00, 14:00, or 18:00. Parameters maintain_begin and maintain_end must be set in pairs. If parameter maintain_begin is left blank, parameter maintain_end is also left blank. In this case, the system automatically set the start time to 02:00. |

| Parameter | Type | Mandatory | Description |
|-----------------------|---------|-----------|--|
| maintain_end | String | No | <p>Indicates the time at which a maintenance time window ends.</p> <p>Format: HH:mm.</p> <ul style="list-style-type: none"> The start time and end time of the maintenance time window must indicate the time segment of a supported maintenance time window. For details about how to query the time segments of supported maintenance time windows, see Querying Maintenance Time Windows. The end time is four hours later than the start time. For example, if the start time is 22:00, the end time is 02:00. Parameters maintain_begin and maintain_end must be set in pairs. If parameter maintain_end is left blank, parameter maintain_start is also left blank. In this case, the system automatically set the end time to 06:00. |
| enable_publicip | Boolean | No | <p>Indicates whether to enable public access for a RabbitMQ instance.</p> <ul style="list-style-type: none"> true: enable false: disable |
| publicip_id | String | No | <p>Indicates the ID of the elastic IP address (EIP) bound to a RabbitMQ instance.</p> <p>This parameter is mandatory if public access is enabled (that is, enable_publicip is set to true).</p> |
| ssl_enable | Boolean | No | <p>Indicates whether to enable SSL-encrypted access.</p> <ul style="list-style-type: none"> true: enable false: disable |
| storage_spec_code | String | Yes | <p>Indicates storage I/O specification.</p> <p>Options:</p> <ul style="list-style-type: none"> dms.physical.storage.normal dms.physical.storage.high dms.physical.storage.ultra |
| enterprise_project_id | String | No | <p>Indicates the enterprise project ID.</p> |

Example request for creating a RabbitMQ instance

```
{
  "name": "rabbitmq-demo",
  "description": "",
  "engine": "RabbitMQ",
  "engine_version": "3.x.x",
  "storage_space": 100,
  "access_user": "*****",
  "password": "*****",
  "vpc_id": "1e93f86e-13af-46c8-97d6-d40fa62b76c2",
  "security_group_id": "0aaa0033-bf7f-4c41-a6c2-18cd04cad2c8",
  "subnet_id": "b5fa806c-35e7-4299-b659-b39398dd4718",
  "available_zones": ["d573142f24894ef3bd3664de068b44b0"],
  "product_id": "00300-30109-0--0",
  "maintain_begin": "22:00",
  "maintain_end": "02:00",
  "ssl_enable": false,
  "enable_publicip": false,
  "publicip_id": "",
  "enterprise_project_id": "0",
  "storage_spec_code": "dms.physical.storage.ultra"
}
```

Response

Response parameters

[Table 6-3](#) describes the response parameter.

Table 6-3 Parameter description

| Parameter | Type | Description |
|-------------|--------|----------------------------|
| instance_id | String | Indicates the instance ID. |

Example response

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

Status Code

[Table 6-4](#) describes the status code of successful operations. For details about other status codes, see [Status Code](#).

Table 6-4 Status code

| Status Code | Description |
|-------------|---------------------------------------|
| 200 | The instance is created successfully. |

6.1.1.2 Querying an Instance

 NOTE

This API is an out-of-date version and may not be maintained in the future. Please use the API described in [Querying an Instance](#).

Function

This API is used to query the details about an instance.

URI

GET /v1.0/{project_id}/instances/{instance_id}

[Table 6-5](#) describes the parameters.

Table 6-5 Parameter description

| Parameter | Type | Mandatory | Description |
|-------------|--------|-----------|--------------------------------|
| project_id | String | Yes | Indicates the ID of a project. |
| instance_id | String | Yes | Indicates the instance ID. |

Request

Request parameters

None.

Example request

None.

Response

Response parameters

[Table 6-6](#) describes the response parameters.

Table 6-6 Parameter description

| Parameter | Type | Description |
|----------------|--------|--|
| name | String | Indicates the instance name. |
| engine | String | Indicates the message engine. |
| engine_version | String | Indicates the version of the message engine. |

| Parameter | Type | Description |
|--------------------|---------|--|
| specification | String | Indicates the instance specification. <ul style="list-style-type: none"> For a single-node RabbitMQ instance, VM specifications are returned. For a cluster RabbitMQ instance, VM specifications and the number of nodes are returned. |
| storage_space | Integer | Indicates the message storage space. Unit: GB |
| used_storage_space | Integer | Indicates the used message storage space. Unit: GB |
| connect_addresses | String | Indicates the IP address of an instance. |
| port | Integer | Indicates the port number of an instance. |
| status | String | Indicates the status of an instance. For details, see Instance Status . |
| description | String | Indicates the description of the instance. |
| instance_id | String | Indicates the instance ID. |

| Parameter | Type | Description |
|--------------------|--------|---|
| resource_spec_code | String | <p>Indicates the resource specifications identifier.</p> <ul style="list-style-type: none"> dms.instance.rabbitmq.single.c3.2u4g: single-node RabbitMQ instance, 2 vCPUs 4 GB (VM specifications) dms.instance.rabbitmq.single.c3.4u8g: single-node RabbitMQ instance, 4 vCPUs 8 GB (VM specifications) dms.instance.rabbitmq.single.c3.8u16g: single-node RabbitMQ instance, 8 vCPUs 16 GB (VM specifications) dms.instance.rabbitmq.single.c3.16u32g: single-node RabbitMQ instance, 16 vCPUs 32 GB (VM specifications) dms.instance.rabbitmq.cluster.c3.4u8g.3: cluster RabbitMQ instance, 4 vCPUs 8 GB (VM specifications), 3 nodes dms.instance.rabbitmq.cluster.c3.4u8g.5: cluster RabbitMQ instance, 4 vCPUs 8 GB (VM specifications), 5 nodes dms.instance.rabbitmq.cluster.c3.4u8g.7: cluster RabbitMQ instance, 4 vCPUs 8 GB (VM specifications), 7 nodes dms.instance.rabbitmq.cluster.c3.8u16g.3: cluster RabbitMQ instance, 8 vCPUs 16 GB (VM specifications), 3 nodes dms.instance.rabbitmq.cluster.c3.8u16g.5: cluster RabbitMQ instance, 8 vCPUs 16 GB (VM specifications), 5 nodes dms.instance.rabbitmq.cluster.c3.8u16g.7: cluster RabbitMQ instance, 8 vCPUs 16 GB (VM specifications), 7 nodes dms.instance.rabbitmq.cluster.c3.16u32g.3: cluster RabbitMQ instance, 16 vCPUs 32 GB (VM specifications), 3 nodes dms.instance.rabbitmq.cluster.c3.16u32g.5: cluster RabbitMQ instance, 16 vCPUs 32 GB (VM specifications), 5 nodes dms.instance.rabbitmq.cluster.c3.16u32g.7: cluster RabbitMQ instance, 16 vCPUs 32 GB (VM specifications), 7 nodes |
| type | String | <p>Indicates the instance type.</p> <p>Options:</p> <ul style="list-style-type: none"> single: single-node instance cluster: cluster instance |

| Parameter | Type | Description |
|---------------------|---------|--|
| charging_mode | Integer | Indicates the billing mode. |
| vpc_id | String | Indicates the ID of a VPC. |
| vpc_name | String | Indicates the name of a VPC. |
| created_at | String | Indicates the time when an instance is created. The time is in the format of timestamp, that is, the offset milliseconds from 1970-01-01 00:00:00 UTC to the specified time. |
| error_code | String | Indicates an error code returned when an instance fails to be created or its status is abnormal. For details about error codes, see Table 6-7 . |
| 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 | Indicates the subnet segment. |
| available_zones | Array | Indicates the ID of the AZ to which the instance node belongs. The AZ ID is returned. |
| user_id | String | Indicates the user ID. |
| user_name | String | Indicates the username. |
| access_user | String | Indicates the username of an instance. |
| order_id | String | Indicates an order ID. |
| maintain_begin | String | Indicates the time at which a maintenance time window starts. Format: HH:mm |
| maintain_end | String | Indicates the time at which a maintenance time window ends. Format: HH:mm |
| enable_publicip | Boolean | Indicates whether to enable public access for a RabbitMQ instance. <ul style="list-style-type: none"> ● true: enable ● false: disable |

| Parameter | Type | Description |
|----------------------------|---------|--|
| publicip_addresses | String | Indicates the EIP bound to a RabbitMQ instance. The value of this parameter is null if public access is disabled. |
| publicip_id | String | Indicates the ID of the EIP bound to a RabbitMQ instance. The value of this parameter is null if public access is disabled. |
| management_connect_address | String | Indicates the management address of a RabbitMQ instance. |
| ssl_enable | Boolean | Indicates whether to enable security authentication. <ul style="list-style-type: none"> • true: enable • false: disable |
| enterprise_project_id | String | Indicates the enterprise project ID. |
| is_logical_volume | Boolean | Distinguishes old instances from new instances during instance capacity expansion. <ul style="list-style-type: none"> • true: New instance, which allows dynamic disk capacity expansion without restarting the instance. • false: Old instance. |
| extend_times | String | Indicates the number of disk expansion times. If it exceeds 20, the disk cannot be expanded. |

Table 6-7 Error code description

| Error Code | Description |
|----------------|--------------------------------------|
| public.00.0001 | Internal service error. |
| public.00.0002 | Internal service error. |
| public.00.0003 | Internal service error. |
| public.00.0004 | Failed to create the VPC. |
| public.00.0005 | Failed to create the security group. |
| public.00.0006 | Failed to create the subnet. |
| public.00.0007 | The subnet status is abnormal. |
| public.00.0008 | Failed to create the ECS. |

| Error Code | Description |
|----------------|--|
| public.00.0009 | Failed to create the ECS. |
| public.00.0010 | Failed to create the ECS. |
| public.00.0011 | Failed to bind an NIC to the ECS. |
| public.00.0013 | Failed to start the ECS. |
| public.00.0014 | Failed to start the ECS. |
| public.00.0015 | Failed to stop the ECS. |
| public.00.0018 | Failed to create the ECS because the ECS resource quota is insufficient. |
| public.00.0024 | Failed to deploy the instance. |
| public.00.0025 | Some nodes of the instance are faulty. |
| public.00.0042 | Failed to connect to the instance. |

Example response

```
{
  "name": "dms-a11e",
  "engine": "rabbitmq",
  "engine_version": "3.x.x",
  "specification": "2vCPUs 4GB",
  "storage_space": 100,
  "used_storage_space": 50,
  "connect_address": "192.168.3.100",
  "port": 5672,
  "status": "RUNNING",
  "description": "Create a instance",
  "instance_id": "68d5745e-6af2-40e4-945d-fe449be00148",
  "resource_spec_code": "dms.instance.rabbitmq.single.c3.2u4g",
  "type": "single",
  "charging_mode": 1,
  "vpc_id": "27d99e17-42f2-4751-818f-5c8c6c03ff15",
  "vpc_name": "vpc_4944a40e-ac57-4f08-9d38-9786e2759458_192",
  "created_at": "1526367063931",
  "error_code": null,
  "product_id": "00300-30109-0--0",
  "security_group_id": "60ea2db8-1a51-4ab6-9e11-65b418c24583",
  "security_group_name": "sg_6379_4944a40e-ac57-4f08-9d38-9786e2759458",
  "subnet_id": "ec2f34b9-20eb-4872-85bd-bea9fc943128",
  "subnet_name": "subnet_az_7f336767-10ec-48a5-9ae8-9cacde119318",
  "subnet_cidr": "192.168.0.0/24",
  "available_zones": ["1d7b939b382c4c3bb3481a8ca10da785"],
  "user_id": "6d0977e4c9b74ae7b5a083a8d0d8fafa",
  "user_name": "aabb02",
  "access_user": "user",
  "order_id": "XXXXXXXXXX",
  "maintain_begin": "22:00",
  "maintain_end": "02:00",
  "enable_publicip": "true",
  "publicip_id": "b7940732-11ef-459b-acab-cab0d26c74a3",
  "publicip_address": "192.168.10.5",
  "ssl_enable": false,
  "management_connect_address": "http://192.168.0.177:9999"
}
```

Status Code

Table 6-8 describes the status code of successful operations. For details about other status codes, see [Status Code](#).

Table 6-8 Status code

| Status Code | Description |
|-------------|--|
| 200 | Specified instance queried successfully. |

6.1.1.3 Modifying an Instance

NOTE

This API is an out-of-date version and may not be maintained in the future. Please use the API described in [Modifying Instance Information](#).

Function

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

URI

PUT /v1.0/{project_id}/instances/{instance_id}

Table 6-9 Parameter description

| Parameter | Type | Mandatory | Description |
|-------------|--------|-----------|--------------------------------|
| project_id | String | Yes | Indicates the ID of a project. |
| instance_id | String | Yes | Indicates the instance ID. |

Request

Request parameters

Table 6-10 describes the request parameters.

Table 6-10 Parameter description

| Parameter | Type | Mandatory | Description |
|----------------|--------|-----------|--|
| name | String | No | Indicates the instance name. An instance name is a string of 4 to 64 characters that contain letters, digits, and hyphens (-). An instance name must start with a letter. |
| description | String | No | Indicates the description of an instance. It is a character string containing not more than 1024 characters. NOTE The backslash (\) and quotation mark (") are special characters for JSON packets. When using these characters in a parameter value, add the escape character (\) before these characters, for example, \\ and \". |
| maintain_begin | String | No | Indicates the time at which a maintenance time window starts. Format: HH:mm:ss. <ul style="list-style-type: none"> The start time and end time of the maintenance time window must indicate the time segment of a supported maintenance time window. For details about how to query the time segments of supported maintenance time windows, see Querying Maintenance Time Windows. The start time must be set to 22:00:00, 02:00:00, 06:00:00, 10:00:00, 14:00:00, or 18:00:00. Parameters maintain_begin and maintain_end must be set in pairs. If parameter maintain_begin is left blank, parameter maintain_end is also left blank. In this case, the system automatically set the start time to 02:00:00. |

| Parameter | Type | Mandatory | Description |
|-----------------------|---------|-----------|---|
| maintain_end | String | No | <p>Indicates the time at which a maintenance time window ends.</p> <p>Format: HH:mm:ss.</p> <ul style="list-style-type: none"> The start time and end time of the maintenance time window must indicate the time segment of a supported maintenance time window. For details about how to query the time segments of supported maintenance time windows, see Querying Maintenance Time Windows. The end time is four hours later than the start time. For example, if the start time is 22:00:00, the end time is 02:00:00. Parameters maintain_begin and maintain_end must be set in pairs. If parameter maintain_end is left blank, parameter maintain_start is also left blank. In this case, the system automatically allocates the default end time 06:00:00. |
| security_group_id | String | No | Indicates the security group ID. |
| enable_publicip | Boolean | No | <p>Indicates whether to enable public access for a RabbitMQ instance.</p> <ul style="list-style-type: none"> true: enable false: disable |
| publicip_id | String | No | <p>Indicates the ID of the EIP bound to a RabbitMQ instance.</p> <p>This parameter is mandatory if public access is enabled (that is, enable_publicip is set to true).</p> |
| enterprise_project_id | String | No | Indicates the enterprise project ID. |

Example request

Example 1:

```
{
  "name": "dms002",
```

```
"description": "instance description"
}
```

Example 2:

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

Response

Response parameters

None.

Example response

None.

Status Code

[Table 6-11](#) describes the status code of successful operations. For details about other status codes, see [Status Code](#).

Table 6-11 Status code

| Status Code | Description |
|-------------|--|
| 204 | The instance is modified successfully. |

6.1.1.4 Deleting an Instance

NOTE

This API is an out-of-date version and may not be maintained in the future. Please use the API described in [Deleting an Instance](#).

Function

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

URI

DELETE /v1.0/{project_id}/instances/{instance_id}

[Table 6-12](#) describes the parameters.

Table 6-12 Parameter description

| Parameter | Type | Mandatory | Description |
|-------------|--------|-----------|--------------------------------|
| project_id | String | Yes | Indicates the ID of a project. |
| instance_id | String | Yes | Indicates the instance ID. |

Request

Request parameters

None.

Example request

None.

Response

Response parameters

None.

Example response

None.

Status Code

[Table 6-13](#) describes the status code of successful operations. For details about other status codes, see [Status Code](#).

Table 6-13 Status code

| Status Code | Description |
|-------------|---------------------------------------|
| 204 | The instance is deleted successfully. |

6.1.1.5 Deleting Instances in Batches

 **NOTE**

This API is an out-of-date version and may not be maintained in the future. Please use the API described in [Batch Deleting Instances](#).

Function

This API is used to delete instances in batches.

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

URI

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

[Table 6-14](#) describes the parameter.

Table 6-14 Parameter description

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

Request

Request

[Table 6-15](#) describes the request parameters.

Table 6-15 Parameter description

| Parameter | Type | Mandatory | Description |
|------------|--------|-----------|--|
| action | String | Yes | Indicates the operation to be performed on instances. The value of this parameter can be delete . |
| instances | Array | Yes | Indicates the list of instance IDs. |
| allFailure | String | No | Indicates whether to delete instances that fail to be created in batches. If this parameter is set to true , all instances that fail to be created are deleted. In this case, the instances parameter in the request can be empty. |

Example request

Deleting instances in batches:

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

Deleting all instances that fail to be created:

```
{
  "action": "delete",
```



```
"allFailure" : "true"
}
```

Response

Response parameters

When **action** is set to **delete**, **allFailure** is set to **true**, and an empty response is returned, the instances are deleted successfully. [Table 6-16](#) describes the parameters.

Table 6-16 Parameter description

| Parameter | Type | Description |
|-----------|-------|--|
| results | Array | Indicates the result of instance modification. |

Table 6-17 results parameter description

| Parameter | Type | Description |
|-----------|--------|---|
| instance | String | Indicates the instance ID. |
| result | String | Indicates an operation result, which can be success or failed |

Example response

```
{
  "results": [
    {
      "result": "success",
      "instance": "afc90a2a-a02c-4cba-94d5-58dfa9ad1e0d"
    },
    {
      "result": "success",
      "instance": "67fc5f8d-3986-4f02-bb75-4075a23112de"
    }
  ]
}
```

Status Code

[Table 6-18](#) describes the status code of successful operations. For details about other status codes, see [Status Code](#).

Table 6-18 Status code

| Status Code | Description |
|-------------|---------------------------------------|
| 200 | The instance is deleted successfully. |

6.1.1.6 Querying All Instances

 NOTE

This API is an out-of-date version and may not be maintained in the future. Please use the API described in [Listing All Instances](#).

Function

This API is used to query the instances of a tenant by set conditions.

URI

GET /v1.0/{project_id}/instances?
engine={engine}&name={name}&status={status}&id={id}&includeFailure={includeFailure}&exactMatchName={exactMatchName}&enterprise_project_id={enterprise_project_id}

[Table 6-19](#) describes the parameters.

Table 6-19 Parameter description

| Parameter | Type | Mandatory | Description |
|----------------|--------|-----------|--|
| project_id | String | Yes | Indicates the ID of a project. |
| engine | String | No | Indicates a message engine type The value is rabbitmq . If this parameter is not specified, all instances will be queried. |
| name | String | No | Indicates the instance name. |
| id | String | No | Indicates the instance ID. |
| status | String | No | Indicates the instance status. For details, see Instance Status . |
| includeFailure | String | No | Indicates whether to return the number of instances that fail to be created. If the value is true , the number of instances that failed to be created is returned. If the value is not true , the number is not returned. |

| Parameter | Type | Mandatory | Description |
|-----------------------|--------|-----------|---|
| exactMatchName | String | No | Indicates whether to search for the instance that precisely matches a specified instance name. The default value is false , indicating that a fuzzy search is performed based on a specified instance name. If the value is true , the instance that precisely matches a specified instance name is queried. |
| enterprise_project_id | String | No | Indicates the enterprise project ID. |

Example

```
GET /v1.0/bd6b78e2ff9e4e47bc260803ddcc7a21/instances?
start=1&limit=10&name=&status=&id=&includeFailure=true&exactMatchName=false
```

Request

Request parameters

None.

Example request

None.

Response

Response parameters

[Table 6-20](#) describes the response parameters.

Table 6-20 Parameter description

| Parameter | Type | Description |
|--------------|---------|------------------------------------|
| instances | Array | Indicates instance details. |
| instance_num | Integer | Indicates the number of instances. |

Table 6-21 instance parameter description

| Parameter | Type | Description |
|--------------------|---------|---|
| name | String | Indicates the instance name. |
| engine | String | Indicates the message engine. |
| engine_version | String | Indicates the engine version. |
| specification | String | Indicates the specifications of an instance. <ul style="list-style-type: none"> For a single-node RabbitMQ instance, VM specifications are returned. For a cluster RabbitMQ instance, VM specifications and the number of nodes are returned. |
| storage_space | Integer | Indicates the message storage space. Unit: GB |
| used_storage_space | Integer | Indicates the used message storage space. Unit: GB |
| connect_addresses | String | Indicates the IP address of an instance. |
| port | Integer | Indicates the port number of an instance. |
| status | String | Indicates the status of an instance. For details, see Instance Status . |
| description | String | Indicates the description of the instance. |
| instance_id | String | Indicates the instance ID. |

| Parameter | Type | Description |
|--------------------|---------|---|
| resource_spec_code | String | <p>Indicates the resource specifications identifier.</p> <ul style="list-style-type: none"> • dms.instance.rabbitmq.single.c3.2u4g: single-node RabbitMQ instance, 2 vCPUs 4 GB (VM specifications) • dms.instance.rabbitmq.single.c3.4u8g: single-node RabbitMQ instance, 4 vCPUs 8 GB (VM specifications) • dms.instance.rabbitmq.single.c3.8u16g: single-node RabbitMQ instance, 8 vCPUs 16 GB (VM specifications) • dms.instance.rabbitmq.single.c3.16u32g: single-node RabbitMQ instance, 16 vCPUs 32 GB (VM specifications) • dms.instance.rabbitmq.cluster.c3.4u8g.3: cluster RabbitMQ instance, 4 vCPUs 8 GB (VM specifications), 3 nodes • dms.instance.rabbitmq.cluster.c3.4u8g.5: cluster RabbitMQ instance, 4 vCPUs 8 GB (VM specifications), 5 nodes • dms.instance.rabbitmq.cluster.c3.4u8g.7: cluster RabbitMQ instance, 4 vCPUs 8 GB (VM specifications), 7 nodes • dms.instance.rabbitmq.cluster.c3.8u16g.3: cluster RabbitMQ instance, 8 vCPUs 16 GB (VM specifications), 3 nodes • dms.instance.rabbitmq.cluster.c3.8u16g.5: cluster RabbitMQ instance, 8 vCPUs 16 GB (VM specifications), 5 nodes • dms.instance.rabbitmq.cluster.c3.8u16g.7: cluster RabbitMQ instance, 8 vCPUs 16 GB (VM specifications), 7 nodes • dms.instance.rabbitmq.cluster.c3.16u32g.3: cluster RabbitMQ instance, 16 vCPUs 32 GB (VM specifications), 3 nodes • dms.instance.rabbitmq.cluster.c3.16u32g.5: cluster RabbitMQ instance, 16 vCPUs 32 GB (VM specifications), 5 nodes • dms.instance.rabbitmq.cluster.c3.16u32g.7: cluster RabbitMQ instance, 16 vCPUs 32 GB (VM specifications), 7 nodes |
| charging_mode | Integer | Indicates a billing mode. 1 : pay-per-use mode. |
| vpc_id | String | Indicates the ID of a VPC. |
| vpc_name | String | Indicates the name of a VPC. |

| 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. |
| error_code | String | Indicates an error code returned when an instance fails to be created or its status is abnormal. For details about error codes, see Table 6-7 . |
| user_id | String | Indicates the user ID. |
| user_name | String | Indicates the username. |
| order_id | String | Indicates an order ID. This parameter has a value only when the billing mode is yearly/monthly mode. |
| maintain_begin | String | Indicates the time at which a maintenance time window starts. Format: HH:mm |
| maintain_end | String | Time at which the maintenance time window ends. Format: HH:mm |
| enable_publicip | Boolean | Indicates whether to enable public access for a RabbitMQ instance. <ul style="list-style-type: none"> • true: enable • false: disable |
| publicip_addresses | String | Indicates the EIP bound to a RabbitMQ instance. The value of this parameter is null if public access is disabled. |
| publicip_id | String | Indicates the ID of the EIP bound to a RabbitMQ instance. The value of this parameter is null if public access is disabled. |
| management_connect_address | String | Indicates the management address of a RabbitMQ instance. |
| ssl_enable | Boolean | Indicates whether to enable security authentication. <ul style="list-style-type: none"> • true: enable • false: disable |
| enterprise_project_id | String | Indicates the enterprise project ID. |

| Parameter | Type | Description |
|-------------------|---------|--|
| is_logical_volume | Boolean | Distinguishes old instances from new instances during instance capacity expansion. <ul style="list-style-type: none"> true: New instance, which allows dynamic disk capacity expansion without restarting the instance. false: Old instance. |
| extend_times | String | Indicates the number of disk expansion times. If it exceeds 20, the disk cannot be expanded. |

Example response

```
{
  "instances": [
    {
      "name": "rabbitmq-lxy001",
      "engine": "rabbitmq",
      "port": 5672,
      "status": "RUNNING",
      "type": "single",
      "specification": "2vCPUs 4GB",
      "engine_version": "3.x.x",
      "connect_address": "192.168.255.237",
      "instance_id": "595926bf-a648-47d8-91bc-461956794c2b",
      "resource_spec_code": "dms.instance.rabbitmq.single.c3.2u4g",
      "charging_mode": 1,
      "vpc_id": "1a28dcc5-c90d-421c-82bb-783f30f5b40a",
      "vpc_name": "vpc-y00292973",
      "created_at": "1562583302800",
      "product_id": "00300-30109-0--0",
      "security_group_id": "0cc8fdb7-872a-49da-a062-88ccc39463b5",
      "security_group_name": "sg-65eb-nw-test",
      "subnet_id": "ebba7994-260d-42ab-bce1-39a08b365dc8",
      "available_zones": [
        "d573142f24894ef3bd3664de068b44b0"
      ],
      "user_id": "50a4156d334a4a82b8745dc730dc1e00",
      "user_name": "test",
      "access_user": "test-Info",
      "maintain_begin": "02:00:00",
      "maintain_end": "06:00:00",
      "storage_space": 88,
      "total_storage_space": 100,
      "used_storage_space": 4,
      "enable_publicip": false,
      "ssl_enable": false,
      "management_connect_address": "http://192.168.255.237:15672",
      "storage_resource_id": "34825335-61cb-4ee0-949e-24b08170edb2",
      "storage_spec_code": "dms.physical.storage.ultra",
      "service_type": "advanced",
      "storage_type": "hec",
      "enterprise_project_id": "0",
      "is_logical_volume": false,
      "extend_times": 0,
      "ipv6_enable": false,
      "ipv6_connect_addresses": [],
      "connector_enable": false,
      "connector_id": "",
      "rest_enable": false,
      "rest_connect_address": "",
      "public_boundwidth": 0,
    }
  ]
}
```

```
    "message_query_inst_enable": true,  
    "vpc_client_plain": false,  
    "support_features":  
"feature.physerver.kafka.topic.accesspolicy,message_trace_enable,feature.physerver.kafka.pulbic.dynamic,feat  
ure.physerver.kafka.user.manager",  
    "trace_enable": false  
  }  
],  
  "instance_num": 1  
}
```

Status Code

Table 6-22 describes the status code of successful operations. For details about other status codes, see **Status Code**.

Table 6-22 Status code

| Status Code | Description |
|-------------|---|
| 200 | All instances are queried successfully. |

6.1.2 Other APIs

6.1.2.1 Querying AZ Information

NOTE

This API is an out-of-date version and may not be maintained in the future. Please use the API described in **Listing AZ Information**.

Function

This API is used to query the AZ ID.

URI

GET /v1.0/availableZones

Request

Request parameters

None.

Example request

None.

Response

Response parameters

[Table 6-23](#) and [Table 6-24](#) describe the parameters.

Table 6-23 Response parameters

| Parameter | Type | Description |
|-----------------|--------|---|
| regionId | String | Indicates the region ID. |
| available_zones | Array | Indicates details of AZs. For details, see Table 6-24 . |

Table 6-24 available_zones parameter description

| Parameter | Type | Description |
|-----------------------|--------|--|
| 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. <ul style="list-style-type: none"> • true: The AZ has available resources. • false: Resources of the AZ have been sold out. |

Example response

```
{
  regionId: "XXXXXX",
  available_zones:[
    {
      "id":"1d7b939b382c4c3bb3481a8ca10da768",
      "name":"az10.dc1",
      "code":"az10.dc1",
      "port":"8002",
      "resource_availability": "true"
    },
    {
      "id":"1d7b939b382c4c3bb3481a8ca10da769",
      "name":"az10.dc2",
      "code":"az10.dc2",
      "port":"8002",
      "resource_availability": "true"
    }
  ]
}
```

Status Code

[Table 6-25](#) describes the status code of successful operations. For details about other status codes, see [Status Code](#).

Table 6-25 Status code

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

6.1.2.2 Querying Product Specifications

 **NOTE**

This API is an out-of-date version and may not be maintained in the future. Please use the API described in [Querying Product Specifications](#).

Function

This API is used to query the product ID (parameter **product_id**) which indicates the specifications of the service you purchased.

URI

GET /v1.0/products?engine={engine}

[Table 6-26](#) describes the parameter.

Table 6-26 Parameter description

| Parameter | Type | Mandatory | Description |
|-----------|--------|-----------|-------------------------------|
| engine | String | No | Indicates the message engine. |

Request

Request parameters

None.

Example Request

None.

Response

Response parameters

[Table 6-27](#) describes the response parameters.

Table 6-27 Parameter description

| Parameter | Type | Description |
|-----------|--------|--|
| name | String | Indicates the name of a message engine. |
| version | String | Indicates the version of the message engine. |
| values | Array | Indicates product specifications. |

Table 6-28 values parameter description

| Parameter | Type | Description |
|-----------|--------|--|
| detail | Array | Indicates the details of specifications. |
| name | String | Indicates an instance type, which can be single-node or cluster. |

Table 6-29 detail parameter description of single-node RabbitMQ instances

| Parameter | Type | Description |
|------------------|--------|--------------------------------------|
| storage | String | Indicates the message storage space. |
| io | Array | Indicates the I/O information. |
| vm_specification | String | Indicates VM specifications. |
| product_id | String | Indicates the product ID. |
| spec_code | String | Indicates the specification ID. |

Table 6-30 detail parameter description of cluster RabbitMQ instances

| Parameter | Type | Description |
|------------------|--------|------------------------------------|
| vm_specification | String | Indicates VM specifications. |
| product_info | Array | Indicates the product information. |

Table 6-31 product_info parameter description

| Parameter | Type | Description |
|-----------|---------|---|
| storage | String | Indicates the message storage space. |
| io | Array | Indicates the I/O information. |
| node_num | Integer | Indicates the number of nodes in a cluster. |

| Parameter | Type | Description |
|------------|--------|---------------------------------|
| product_id | String | Indicates the product ID. |
| spec_code | String | Indicates the specification ID. |

Table 6-32 io parameter description

| Parameter | Type | Description |
|-------------------|--------|----------------------------------|
| io_type | String | Indicates the I/O type. |
| storage_spec_code | String | Indicates the I/O specification. |

Example response

List of RabbitMQ instance specifications:

```
{
  "Hourly": [
    {
      "name": "RabbitMQ",
      "version": "3.x.x",
      "values": [
        {
          "detail": [
            {
              "storage": "100",
              "io": [
                {
                  "io_type": "normal",
                  "storage_spec_code": "dms.physical.storage.normal"
                },
                {
                  "io_type": "high",
                  "storage_spec_code": "dms.physical.storage.high"
                },
                {
                  "io_type": "ultra",
                  "storage_spec_code": "dms.physical.storage.ultra"
                }
              ],
              "vm_specification": "2vCPUs 4GB",
              "product_id": "00300-30109-0--0",
              "spec_code": "dms.instance.rabbitmq.single.c3.2u4g"
            },
            {
              "storage": "100",
              "io": [
                {
                  "io_type": "normal",
                  "storage_spec_code": "dms.physical.storage.normal"
                },
                {
                  "io_type": "high",
                  "storage_spec_code": "dms.physical.storage.high"
                },
                {
                  "io_type": "ultra",
                  "storage_spec_code": "dms.physical.storage.ultra"
                }
              ]
            }
          ]
        }
      ]
    }
  ]
}
```

```

    }
  ],
  "vm_specification": "4vCPUs 8GB",
  "product_id": "00300-30111-0--0",
  "spec_code": "dms.instance.rabbitmq.single.c3.4u8g"
},
{
  "storage": "100",
  "io": [
    {
      "io_type": "normal",
      "storage_spec_code": "dms.physical.storage.normal"
    },
    {
      "io_type": "high",
      "storage_spec_code": "dms.physical.storage.high"
    },
    {
      "io_type": "ultra",
      "storage_spec_code": "dms.physical.storage.ultra"
    }
  ],
  "vm_specification": "8vCPUs 16GB",
  "product_id": "00300-30113-0--0",
  "spec_code": "dms.instance.rabbitmq.single.c3.8u16g"
},
{
  "storage": "100",
  "io": [
    {
      "io_type": "normal",
      "storage_spec_code": "dms.physical.storage.normal"
    },
    {
      "io_type": "high",
      "storage_spec_code": "dms.physical.storage.high"
    },
    {
      "io_type": "ultra",
      "storage_spec_code": "dms.physical.storage.ultra"
    }
  ],
  "vm_specification": "16vCPUs 32GB",
  "product_id": "00300-30115-0--0",
  "spec_code": "dms.instance.rabbitmq.single.c3.16u32g"
}
],
"name": "single"
},
{
  "detail": [
    {
      "vm_specification": "4vCPUs 8GB",
      "product_info": [
        {
          "storage": "300",
          "io": [
            {
              "io_type": "normal",
              "storage_spec_code": "dms.physical.storage.normal"
            },
            {
              "io_type": "high",
              "storage_spec_code": "dms.physical.storage.high"
            },
            {
              "io_type": "ultra",
              "storage_spec_code": "dms.physical.storage.ultra"
            }
          ]
        }
      ]
    }
  ]
}

```

```

    ],
    "node_num": "3",
    "product_id": "00300-30209-0--0",
    "spec_code": "dms.instance.rabbitmq.cluster.c3.4u8g.3"
  },
  {
    "storage": "500",
    "io": [
      {
        "io_type": "normal",
        "storage_spec_code": "dms.physical.storage.normal"
      },
      {
        "io_type": "high",
        "storage_spec_code": "dms.physical.storage.high"
      },
      {
        "io_type": "ultra",
        "storage_spec_code": "dms.physical.storage.ultra"
      }
    ],
    "node_num": "5",
    "product_id": "00300-30211-0--0",
    "spec_code": "dms.instance.rabbitmq.cluster.c3.4u8g.5"
  },
  {
    "storage": "700",
    "io": [
      {
        "io_type": "normal",
        "storage_spec_code": "dms.physical.storage.normal"
      },
      {
        "io_type": "high",
        "storage_spec_code": "dms.physical.storage.high"
      },
      {
        "io_type": "ultra",
        "storage_spec_code": "dms.physical.storage.ultra"
      }
    ],
    "node_num": "7",
    "product_id": "00300-30213-0--0",
    "spec_code": "dms.instance.rabbitmq.cluster.c3.4u8g.7"
  }
]
},
{
  "vm_specification": "8vCPUs 16GB",
  "product_info": [
    {
      "storage": "300",
      "io": [
        {
          "io_type": "normal",
          "storage_spec_code": "dms.physical.storage.normal"
        },
        {
          "io_type": "high",
          "storage_spec_code": "dms.physical.storage.high"
        },
        {
          "io_type": "ultra",
          "storage_spec_code": "dms.physical.storage.ultra"
        }
      ],
      "node_num": "3",
      "product_id": "00300-30215-0--0",
      "spec_code": "dms.instance.rabbitmq.cluster.c3.8u16g.3"
    }
  ]
}

```

```

    },
    {
      "storage": "500",
      "io": [
        {
          "io_type": "normal",
          "storage_spec_code": "dms.physical.storage.normal"
        },
        {
          "io_type": "high",
          "storage_spec_code": "dms.physical.storage.high"
        },
        {
          "io_type": "ultra",
          "storage_spec_code": "dms.physical.storage.ultra"
        }
      ],
      "node_num": "5",
      "product_id": "00300-30217-0--0",
      "spec_code": "dms.instance.rabbitmq.cluster.c3.8u16g.5"
    },
    {
      "storage": "700",
      "io": [
        {
          "io_type": "normal",
          "storage_spec_code": "dms.physical.storage.normal"
        },
        {
          "io_type": "high",
          "storage_spec_code": "dms.physical.storage.high"
        },
        {
          "io_type": "ultra",
          "storage_spec_code": "dms.physical.storage.ultra"
        }
      ],
      "node_num": "7",
      "product_id": "00300-30219-0--0",
      "spec_code": "dms.instance.rabbitmq.cluster.c3.8u16g.7"
    }
  ]
},
{
  "vm_specification": "16vCPUs 32GB",
  "product_info": [
    {
      "storage": "300",
      "io": [
        {
          "io_type": "normal",
          "storage_spec_code": "dms.physical.storage.normal"
        },
        {
          "io_type": "high",
          "storage_spec_code": "dms.physical.storage.high"
        },
        {
          "io_type": "ultra",
          "storage_spec_code": "dms.physical.storage.ultra"
        }
      ],
      "node_num": "3",
      "product_id": "00300-30221-0--0",
      "spec_code": "dms.instance.rabbitmq.cluster.c3.16u32g.3"
    },
    {
      "storage": "500",
      "io": [

```

```

        {
          "io_type": "normal",
          "storage_spec_code": "dms.physical.storage.normal"
        },
        {
          "io_type": "high",
          "storage_spec_code": "dms.physical.storage.high"
        },
        {
          "io_type": "ultra",
          "storage_spec_code": "dms.physical.storage.ultra"
        }
      ],
      "node_num": "5",
      "product_id": "00300-30223-0--0",
      "spec_code": "dms.instance.rabbitmq.cluster.c3.16u32g.5"
    },
    {
      "storage": "700",
      "io": [
        {
          "io_type": "normal",
          "storage_spec_code": "dms.physical.storage.normal"
        },
        {
          "io_type": "high",
          "storage_spec_code": "dms.physical.storage.high"
        },
        {
          "io_type": "ultra",
          "storage_spec_code": "dms.physical.storage.ultra"
        }
      ],
      "node_num": "7",
      "product_id": "00300-30225-0--0",
      "spec_code": "dms.instance.rabbitmq.cluster.c3.16u32g.7"
    }
  ]
},
"name": "cluster"
}
]
},
"Monthly": [
  {
    "name": "RabbitMQ",
    "version": "3.x.x",
    "values": [
      {
        "detail": [
          {
            "storage": "100",
            "io": [
              {
                "io_type": "normal",
                "storage_spec_code": "dms.physical.storage.normal"
              },
              {
                "io_type": "high",
                "storage_spec_code": "dms.physical.storage.high"
              },
              {
                "io_type": "ultra",
                "storage_spec_code": "dms.physical.storage.ultra"
              }
            ],
            "vm_specification": "2vCPUs 4GB",
          }
        ]
      }
    ]
  }
]

```



```

"product_id": "00300-30110-0--0",
"spec_code": "dms.instance.rabbitmq.single.c3.2u4g"
},
{
  "storage": "100",
  "io": [
    {
      "io_type": "normal",
      "storage_spec_code": "dms.physical.storage.normal"
    },
    {
      "io_type": "high",
      "storage_spec_code": "dms.physical.storage.high"
    },
    {
      "io_type": "ultra",
      "storage_spec_code": "dms.physical.storage.ultra"
    }
  ],
  "vm_specification": "4vCPUs 8GB",
  "product_id": "00300-30112-0--0",
  "spec_code": "dms.instance.rabbitmq.single.c3.4u8g"
},
{
  "storage": "100",
  "io": [
    {
      "io_type": "normal",
      "storage_spec_code": "dms.physical.storage.normal"
    },
    {
      "io_type": "high",
      "storage_spec_code": "dms.physical.storage.high"
    },
    {
      "io_type": "ultra",
      "storage_spec_code": "dms.physical.storage.ultra"
    }
  ],
  "vm_specification": "8vCPUs 16GB",
  "product_id": "00300-30114-0--0",
  "spec_code": "dms.instance.rabbitmq.single.c3.8u16g"
},
{
  "storage": "100",
  "io": [
    {
      "io_type": "normal",
      "storage_spec_code": "dms.physical.storage.normal"
    },
    {
      "io_type": "high",
      "storage_spec_code": "dms.physical.storage.high"
    },
    {
      "io_type": "ultra",
      "storage_spec_code": "dms.physical.storage.ultra"
    }
  ],
  "vm_specification": "16vCPUs 32GB",
  "product_id": "00300-30116-0--0",
  "spec_code": "dms.instance.rabbitmq.single.c3.16u32g"
}
],
"name": "single"
},
{
  "detail": [
    {

```

```

"vm_specification": "4vCPUs 8GB",
"product_info": [
  {
    "storage": "300",
    "io": [
      {
        "io_type": "normal",
        "storage_spec_code": "dms.physical.storage.normal"
      },
      {
        "io_type": "high",
        "storage_spec_code": "dms.physical.storage.high"
      },
      {
        "io_type": "ultra",
        "storage_spec_code": "dms.physical.storage.ultra"
      }
    ],
    "node_num": "3",
    "product_id": "00300-30210-0--0",
    "spec_code": "dms.instance.rabbitmq.cluster.c3.4u8g.3"
  },
  {
    "storage": "500",
    "io": [
      {
        "io_type": "normal",
        "storage_spec_code": "dms.physical.storage.normal"
      },
      {
        "io_type": "high",
        "storage_spec_code": "dms.physical.storage.high"
      },
      {
        "io_type": "ultra",
        "storage_spec_code": "dms.physical.storage.ultra"
      }
    ],
    "node_num": "5",
    "product_id": "00300-30212-0--0",
    "spec_code": "dms.instance.rabbitmq.cluster.c3.4u8g.5"
  },
  {
    "storage": "700",
    "io": [
      {
        "io_type": "normal",
        "storage_spec_code": "dms.physical.storage.normal"
      },
      {
        "io_type": "high",
        "storage_spec_code": "dms.physical.storage.high"
      },
      {
        "io_type": "ultra",
        "storage_spec_code": "dms.physical.storage.ultra"
      }
    ],
    "node_num": "7",
    "product_id": "00300-30214-0--0",
    "spec_code": "dms.instance.rabbitmq.cluster.c3.4u8g.7"
  }
],
},
{
  "vm_specification": "8vCPUs 16GB",
  "product_info": [
    {
      "storage": "300",

```

```

        "io": [
          {
            "io_type": "normal",
            "storage_spec_code": "dms.physical.storage.normal"
          },
          {
            "io_type": "high",
            "storage_spec_code": "dms.physical.storage.high"
          },
          {
            "io_type": "ultra",
            "storage_spec_code": "dms.physical.storage.ultra"
          }
        ],
        "node_num": "3",
        "product_id": "00300-30216-0--0",
        "spec_code": "dms.instance.rabbitmq.cluster.c3.8u16g.3"
      },
      {
        "storage": "500",
        "io": [
          {
            "io_type": "normal",
            "storage_spec_code": "dms.physical.storage.normal"
          },
          {
            "io_type": "high",
            "storage_spec_code": "dms.physical.storage.high"
          },
          {
            "io_type": "ultra",
            "storage_spec_code": "dms.physical.storage.ultra"
          }
        ],
        "node_num": "5",
        "product_id": "00300-30218-0--0",
        "spec_code": "dms.instance.rabbitmq.cluster.c3.8u16g.5"
      },
      {
        "storage": "700",
        "io": [
          {
            "io_type": "normal",
            "storage_spec_code": "dms.physical.storage.normal"
          },
          {
            "io_type": "high",
            "storage_spec_code": "dms.physical.storage.high"
          },
          {
            "io_type": "ultra",
            "storage_spec_code": "dms.physical.storage.ultra"
          }
        ],
        "node_num": "7",
        "product_id": "00300-30220-0--0",
        "spec_code": "dms.instance.rabbitmq.cluster.c3.8u16g.7"
      }
    ]
  },
  {
    "vm_specification": "16vCPUs 32GB",
    "product_info": [
      {
        "storage": "300",
        "io": [
          {
            "io_type": "normal",
            "storage_spec_code": "dms.physical.storage.normal"
          }
        ]
      }
    ]
  }
}

```


Table 6-33 Status code

| Status Code | Description |
|-------------|--|
| 200 | Product specifications queried successfully. |

6.1.2.3 Querying Maintenance Time Windows

 **NOTE**

This API is an out-of-date version and may not be maintained in the future. Please use the API described in [Listing Maintenance Time Windows](#).

Function

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

URI

GET /v1.0/instances/maintain-windows

Request

Request parameters

None.

Example Request

None.

Response

Response parameters

[Table 6-34](#) and [Table 6-35](#) describe the response parameters.

Table 6-34 Parameter description

| Parameter | Type | Description |
|------------------|-------|---|
| maintain_windows | Array | Indicates a list of supported maintenance time windows. |

Table 6-35 maintain_windows parameter description

| Parameter | Type | Description |
|-----------|---------|---|
| seq | Integer | Indicates the sequential number of a maintenance time window. |

| Parameter | Type | Description |
|-----------|---------|---|
| begin | String | Indicates the time at which a maintenance time window starts. |
| end | String | Indicates the time at which a maintenance time window ends. |
| default | Boolean | Indicates whether a maintenance time window is set to the default time segment. |

Example response

```
{
  "maintain_windows": [
    {
      "seq": 1,
      "begin": "22",
      "end": "02",
      "default": false
    },
    {
      "seq": 2,
      "begin": "02",
      "end": "06",
      "default": true
    },
    {
      "seq": 3,
      "begin": "06",
      "end": "10",
      "default": false
    },
    {
      "seq": 4,
      "begin": "10",
      "end": "14",
      "default": false
    },
    {
      "seq": 5,
      "begin": "14",
      "end": "18",
      "default": false
    },
    {
      "seq": 6,
      "begin": "18",
      "end": "22",
      "default": false
    }
  ]
}
```

Status Code

Table 6-36 describes the status code of successful operations. For details about other status codes, see [Status Code](#).

Table 6-36 Status code

| Status Code | Description |
|-------------|--|
| 200 | The maintenance time windows are queried successfully. |

7 Appendix

7.1 Status Code

[Table 7-1](#) lists status codes.

Table 7-1 Status codes

| Status Code | Name | Description |
|-------------|-------------------------------|--|
| 100 | Continue | The server has received the initial part of the request and the client should continue to send the remaining part. |
| 101 | Switching Protocols | The requester has asked the server to switch protocols and the server has agreed to do so. The target protocol must be more advanced than the source protocol. 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. |

7.2 Error Codes

| Status Code | Error Codes | Error Message | Description | Solution |
|-------------|--------------|-----------------------------------|----------------------------|------------------------------|
| 400 | DMS.00400002 | The project ID format is invalid. | Invalid project ID. | Check the project ID format. |
| 400 | DMS.00400004 | The request body is empty. | The request body is empty. | Check the request body. |

| Status Code | Error Codes | Error Message | Description | Solution |
|-------------|--------------|--|--|---------------------------------|
| 400 | DMS.00400005 | The message body is not in JSON format or contains invalid characters. | Check the project ID format. | Check the message body format. |
| 400 | DMS.00400007 | Unsupported type. | Unsupported type. | Check the type. |
| 400 | DMS.00400008 | Unsupported version. | Unsupported version. | Check the version. |
| 400 | DMS.00400009 | Invalid product_id. | Invalid product_id in the request. | Check the product_id parameter. |
| 400 | DMS.00400010 | Invalid instance name. The name must be 4 to 64 characters long. Only letters, digits, underscores (_), and hyphens (-) are allowed. | Invalid instance name. The name must be 4 to 64 characters long. Only letters, digits, underscores (_), and hyphens (-) are allowed. | Check the instance name. |
| 400 | DMS.00400011 | The instance description can contain a maximum of 1024 characters. | The instance description can contain a maximum of 1024 characters. | Check the instance description. |

| Status Code | Error Codes | Error Message | Description | Solution |
|-------------|------------------|---|--|--|
| 400 | DMS.0040001 2 | The password does not meet the complexity requirements. An instance password must be a string consisting of 8 to 32 characters. Contain at least two of the following character types: Lowercase letters, Uppercase letters, Digits, Special characters `~!@#\$%^&*()-_+=\ []{}:;',<.>/?` | The password does not meet the complexity requirements. A password: - Can contain 8 to 32 characters. - Must contain at least three of the following character types: letters, digits, and special characters `~!@#\$%^&*()-_+=\ []{}:;',<.>/?` - Cannot be a weak password. | Check whether the password meets the requirements. |
| 400 | DMS.0040001 3 | vpc_id in the request is empty. | Request parameter vpc_id is empty. | Check the vpc_id parameter. |
| 400 | DMS.0040001 4 | security_group_id in the request is empty. | Request parameter security_group_id is empty. | Check the security_group_id parameter. |
| 400 | DMS.0040001 5 | Invalid username. A username must be 4 to 64 characters long and consist of only letters, digits, and hyphens (-). | Invalid username. A username must be 4 to 64 characters long and consist of only letters, digits, and hyphens (-). | Check the username. |

| Status Code | Error Codes | Error Message | Description | Solution |
|-------------|--------------|---|--|--|
| 400 | DMS.00400016 | subnet_id in the request is empty. | Request parameter subnet_id is empty. | Check the subnet_id parameter. |
| 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. |
| 400 | DMS.00400081 | Duplicate instance name. | The instance name already exists. | Check the instance name. |

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

| Status Code | Error Codes | Error Message | Description | Solution |
|-------------|------------------|--|---|--|
| 400 | DMS.0040010 2 | The number of partitions created for a Kafka topic must be within the range of 1-200. | The number of partitions created for a topic in a Kafka instance must be within the range of 1-200. | Check the number of partitions of the topic. |
| 400 | DMS.0040010 3 | The number of replicas created for a Kafka topic must be within the range of 1-20. | The number of replicas created for a topic in a Kafka instance must be within the range of 1-20. | Check the number of replicas of the topic. |
| 400 | DMS.0040010 5 | The message retention period of a Kafka topic must be within the range of 1-168. | The aging time of a topic in a Kafka instance must be within the range of 1-168. | Check the aging time of the topic. |
| 400 | DMS.0040010 6 | Invalid maintenance time window. | Invalid maintenance time window. | Check the maintenance time window parameter. |
| 400 | DMS.0040010 7 | 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.0040010 8 | 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. |

| Status Code | Error Codes | Error Message | Description | Solution |
|-------------|------------------|--|--|---|
| 400 | DMS.0040012 4 | 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.0040012 5 | Invalid SPEC_CODE. | Invalid SPEC_CODE. | Check SPEC_CODE. |
| 400 | DMS.0040012 7 | Instance not support to change retention_policy. | The instance does not support retention policy changes. | Contact technical support. |
| 400 | DMS.0040012 8 | Invalid public access parameters. | Invalid public access parameters. | Check the public access parameters. |
| 400 | DMS.0040012 9 | Current instance version is less than required. | The instance version does not support this operation. | Contact technical support. |
| 400 | DMS.0040013 3 | Sink task quota for connector invalid. | Invalid connector task quota. | Contact technical support. |
| 400 | DMS.0040013 4 | There is another order need to pay first. | An unpaid order exists. | Pay for the order first. |
| 400 | DMS.0040013 5 | Not support disk encrypted. | Disk encryption is not supported. | Do not enable disk encryption. |
| 400 | DMS.0040013 6 | Disk encrypted key is null. | The disk encryption key is empty. | Check the disk encryption key. |
| 400 | DMS.0040013 7 | Disk encrypted key state is not enabled. | The disk encryption key is not enabled. | Enable the disk encryption key. |

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

| Status Code | Error Codes | Error Message | Description | Solution |
|-------------|--------------|--|--|--|
| 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.00400875 | Inconsistent source and target Redis instance types in the Smart Connect task. | Inconsistent source and target Redis instance types in the Smart Connect task. | Change the source and target Redis instance types and try again. |
| 400 | DMS.00400876 | The topic does not exist. | The topic does not exist. | Check the topic and try again. |
| 400 | DMS.00400970 | RabbitMQ plugin is not exist | Invalid plugin name | Check the plugin list. |
| 400 | DMS.00400971 | The instance ssl is off. | The instance ssl is off. | View the instance details and check whether SSL is enabled. |
| 400 | DMS.00400975 | Failed to query topics. | Failed to query topics. | Check whether the topic exists. |
| 400 | DMS.00404033 | Does not support extend rabbitMQ disk space. | The RabbitMQ disk space cannot be expanded. | Scale out the RabbitMQ cluster. |
| 400 | DMS.00500033 | Failed to access EPS to update the project | Failed to access EPS to update the project | Contact technical support. |
| 400 | DMS.00500960 | Invalid user AK/SK. | Invalid user AK/SK. | Correct the user AK/SK and try again. |
| 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. |

| Status Code | Error Codes | Error Message | Description | Solution |
|-------------|------------------|--|--|-------------------------------|
| 400 | DMS.1024000 2 | The number of queried queues exceeds the upper limit. | The maximum number of queried queues has been reached. | Check the queue quantity. |
| 400 | DMS.1024000 4 | The tag name is invalid. | Invalid tag name. | Check the tag name. |
| 400 | DMS.1024000 5 | The project ID format is invalid. | Invalid project ID. | Check the project ID format. |
| 400 | DMS.1024000 7 | The name contains invalid characters. | The name contains invalid characters. | Check the name. |
| 400 | DMS.1024000 9 | 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.1024001 0 | The description contains invalid characters. | The description contains invalid characters. | Check the description. |
| 400 | DMS.1024001 1 | The name length must be 1 to 64 characters. | The name can contain 1 to 64 characters. | Check the name length. |
| 400 | DMS.1024001 2 | The name length must be 1 to 32 characters. | The name can contain 1 to 32 characters. | Check the name length. |
| 400 | DMS.1024001 3 | The description length must not exceed 160 characters. | The description can contain a maximum of 160 characters. | Check the description length. |

| Status Code | Error Codes | Error Message | Description | Solution |
|-------------|------------------|---|---|--|
| 400 | DMS.1024001 4 | The number of consumable messages exceeds the maximum limit. | The number of consumable messages is not within the allowed range. | Check the number of consumable messages. |
| 400 | DMS.1024001 5 | The queue ID format is invalid. | Invalid queue ID. | Check the queue ID. |
| 400 | DMS.1024001 6 | The group ID format is invalid. | Invalid group ID. | Check the group ID. |
| 400 | DMS.1024001 7 | The queue already exists. | The queue already exists. | Check whether the queue exists. |
| 400 | DMS.1024001 8 | The consumer group already exists. | The consumer group already exists. | Check whether the consumer group exists. |
| 400 | DMS.1024001 9 | The number of consumer groups exceeds the upper limit. | The number of consumer groups exceeds the upper limit. | Check the number of consumer groups. |
| 400 | DMS.1024002 0 | The quota is insufficient. | Insufficient quota. | Check the quota. |
| 400 | DMS.1024002 1 | 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.1024002 2 | 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.1024002 7 | 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. |

| Status Code | Error Codes | Error Message | Description | Solution |
|-------------|--------------|--|--|---|
| 400 | DMS.10240028 | Non-kafka queues do not support retention_hours. | Non-kafka queues do not support retention_hours. | Check whether the queue is a Kafka queue. If not, do not set retention_hours. |
| 400 | DMS.10240032 | The queue is being created. | The queue is being created. | Check whether the queue is being created. |
| 400 | DMS.10240035 | The tag key is empty or too long. | The tag key of the queue is empty or too long. | Check the tag key of the queue. |
| 400 | DMS.10240036 | The tag key contains invalid characters. | The tag key of the queue contains invalid characters. | Check the tag key of the queue. |
| 400 | DMS.10240038 | The tag value is too long. | The tag value is too long. | Check the tag value of the queue. |
| 400 | DMS.10240039 | The tag value contains invalid characters. | The tag value contains invalid characters. | Check the tag value of the queue. |
| 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. |

| Status Code | Error Codes | Error Message | Description | Solution |
|-------------|--------------|---|--|--|
| 400 | DMS.10240043 | The number of skipped records for pagination query exceeds the upper limit. | The offset for pagination query exceeds the upper limit. | Check the paging offset. |
| 400 | DMS.10240044 | A maximum of 10 tags can be created. | A maximum of 10 tags can be created. | Check the tag quantity. |
| 400 | DMS.10240045 | The tag key has been used. | The tag key has been used. | Check whether the tag key has been used. |
| 400 | DMS.10540001 | The message body contains invalid fields. | The message body contains invalid fields. | Check the message body. |
| 400 | DMS.10540003 | Message ack status must be either 'success' or 'fail'. It should not be '{status}'. | Message ack status must be either success or fail. It should not be {status}. | Check whether the status meets the requirements. |
| 400 | DMS.10540004 | Request error | Request error. The queue or group name does not match the handler. | Check whether the queue or group name matches the handler. |
| 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. |

| Status Code | Error Codes | Error Message | Description | Solution |
|-------------|------------------|---|---|--|
| 400 | DMS.1054001 2 | 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.1054001 4 | The URL contains invalid parameters. | The URL contains invalid parameters. | Check the URL parameters. |
| 400 | DMS.1054020 2 | The request format is incorrect | The request format is incorrect. {Error description} | Check the request format. |
| 400 | DMS.1054220 4 | Failed to consume messages due to {desc}. | Failed to consume messages. {Error description} | Check the error information and rectify the fault accordingly. |
| 400 | DMS.1054220 5 | 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. |

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

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

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

| Status Code | Error Codes | Error Message | Description | Solution |
|-------------|---------------|---|---|--|
| 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. |
| 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 | DMS.00500000 | Internal service error. | Internal service error. | Contact technical support. |
| 500 | DMS.00500006 | Internal service error. | Internal service error. | Contact technical support. |

| Status Code | Error Codes | Error Message | Description | Solution |
|-------------|--------------|--|--|---|
| 500 | DMS.00500017 | Internal service error. | Internal service error. | Contact technical support. |
| 500 | DMS.00500024 | Internal service error. | Internal service error. | Contact technical support. |
| 500 | DMS.00500025 | Internal service error. | Internal service error. | Contact technical support. |
| 500 | DMS.00500041 | Internal service error. | Internal service error. | Contact technical support. |
| 500 | DMS.00500052 | Internal service error. | Failed to submit the instance upgrade job. | Contact technical support. |
| 500 | DMS.00500053 | Internal service error. | The specified instance node is not found. | Contact technical support. |
| 500 | DMS.00500054 | Internal service error. | Failed to generate the password. | Contact technical support. |
| 500 | DMS.00500070 | Internal service error. | Failed to configure the instance. | Contact technical support. |
| 500 | DMS.00500071 | Internal service error. | Failed to create the instance backup policy. | Contact technical support. |
| 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 |

| Status Code | Error Codes | Error Message | Description | Solution |
|-------------|---------------|---|---|--|
| 500 | DMS.00501002 | Failed to query agency roleid. | Failed to query the role ID based on the role name. | Check whether the role name in the request is correct. |
| 500 | DMS.00501003 | Failed to grant role to agency. | Failed to grant role to agency. | Try again later, or contact technical support |
| 500 | DMS.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.105500035 | tag_type must be either or or and. | tag_type must be either 'or' or 'and'. | Check tag_type. |
| 501 | DMS.111501026 | Query reach maximum byte | The total number of bytes in the query exceeds the upper limit. | Shorten the time range to ensure that the number of queried bytes does not exceed the limit, or use other methods to query data. |

| Status Code | Error Codes | Error Message | Description | Solution |
|-------------|-------------------|---|-----------------------|--------------------|
| 503 | DMS.1115010 25 | Query Busy. Please try again later. | Message query busy | Please query later |

7.3 Instance Status

Table 7-2 Instance status description

| Status | Description |
|----------------|---|
| CREATING | The instance is being created. |
| CREATEFAILED | The instance fails to be created. |
| RUNNING | The instance is running properly. Instances in this state can provide services. |
| ERROR | The instance is not running properly. |
| RESTARTING | The instance is being restarted. |
| EXTENDING | The instance specifications are being changed. |
| EXTENDEDFAILED | The instance specifications failed to be changed. |

7.4 Obtaining a Project ID

Scenario

A project ID is required for some URLs when an API is called. Obtain a project ID using either of the following methods:

- [Obtaining a Project ID by Calling an API](#)
- [Obtaining a Project ID on the Console](#)

Obtaining a Project ID by Calling an API

You can obtain a project ID by calling the IAM API used to query projects based on specified criteria.

The API used to obtain a project ID is **GET https://{Endpoint}/v3/projects**, where *{Endpoint}* indicates the IAM endpoint. You can obtain the IAM endpoint from [Regions and Endpoints](#). For details on API calling authentication, see [Authentication](#).

The following is an example response. The value of **id** in the **projects** section is the project ID:

```
{
  "projects": [
    {
      "domain_id": "65382450e8f64ac0870cd180d14e684b",
      "is_domain": false,
      "parent_id": "65382450e8f64ac0870cd180d14e684b",
      "name": "xxx-xxx-xxx",
      "description": "",
      "links": {
        "next": null,
        "previous": null,
        "self": "https://www.example.com/v3/projects/a4a5d4098fb4474fa22cd05f897d6b99"
      },
      "id": "a4a5d4098fb4474fa22cd05f897d6b99",
      "enabled": true
    }
  ],
  "links": {
    "next": null,
    "previous": null,
    "self": "https://www.example.com/v3/projects"
  }
}
```

Obtaining a Project ID on the Console

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

The following procedure describes how to obtain a project ID:

- Step 1** Log in to the management console.
- Step 2** Click the username and choose **My Credentials** from the drop-down list.

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

----End

7.5 Obtaining the Account Name and Account ID

The account name and account ID are required for some URLs when an API is called. The following procedure describes how to obtain the domain and domain ID:

1. Log in to the console.
2. Click the username and choose **My Credentials** from the drop-down list.
View the account name and account ID.

Figure 7-1 Viewing the domain name and domain ID



A Change History

| Released on | Description |
|-------------|--|
| 2024-01-24 | This issue incorporates the following change: <ul style="list-style-type: none">• Removed support for RabbitMQ 3.7.17. |
| 2023-05-24 | This release incorporates the following change: <ul style="list-style-type: none">• Added V2 APIs. |
| 2020-11-06 | This issue is the first official release. |