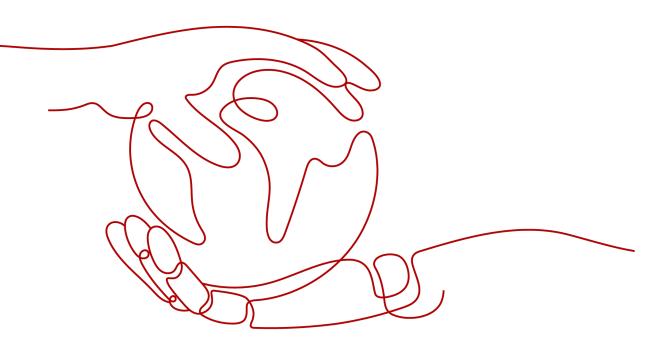
Distributed Message Service for RabbitMQ

API Reference

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Contents

1 Before You Start	1
1.1 Overview	1
1.2 API Calling	1
1.3 Endpoints	1
1.4 Constraints	2
1.5 Concepts	2
2 API Overview	3
3 Calling APIs	4
3.1 Making an API Request	4
3.2 Authentication	6
3.3 Response	8
4 Getting Started	10
5 APIs for Managing Instances	12
5.1 Creating an Instance	12
5.2 Querying an Instance	17
5.3 Modifying an Instance	23
5.4 Deleting an Instance	26
5.5 Restarting or Deleting Instances in Batches	27
5.6 Querying All Instances	30
6 Other APIs	
6.1 Querying AZ Information	
6.2 Querying Product Specifications	
6.3 Querying Maintenance Time Windows	50
7 Permissions Policies and Supported Actions	52
8 Appendix	55
8.1 Status Code	55
8.2 Error Code	
8.3 Instance Status	
8.4 Obtaining a Project ID	63
8.5 Obtaining the Domain Name and Domain ID	63

Contents

Before You Start

1.1 Overview

Welcome to *Distributed Message Service for RabbitMQ API Reference*. 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 document describes functions, syntax, parameters, and examples of the application programming interfaces (APIs) of DMS for RabbitMQ.

NOTICE

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

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

1.2 API Calling

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

1.3 Endpoints

An endpoint is the **request address** for calling an API. Endpoints vary depending on services and regions. For the endpoints of different services, see **Regions and Endpoints**.

1.4 Constraints

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

1.5 Concepts

Account

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

IAM user

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

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

- Region: A region is a geographic area in which cloud resources are deployed. Availability zones (AZs) in the same region can communicate with each other over an intranet, while AZs in different regions are isolated from each other. Deploying cloud resources in different regions can better suit certain user requirements or comply with local laws or regulations.
- AZ: An AZ comprises of one or multiple physical data centers equipped with independent ventilation, fire, water, and electricity facilities. Computing, network, storage, and other resources in an AZ are logically divided into multiple clusters. AZs within a region are interconnected using high-speed optical fibers to allow you to build cross-AZ high-availability systems.
- Project

Projects group and isolate resources (including compute, storage, and network resources) across physical regions. A default project is provided for each region, and subprojects can be created under each default project. Users can be granted permissions to access all resources in a specific project. If you need more refined access control, create subprojects under a default project and purchase resources in subprojects. Then you can assign users the permissions required to access only the resources in the specific 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 API Overview

Table 2-1 Instance management APIs

API	Description
Creating an Instance	Create a pay-per-use instance.
Querying an Instance	Query the details about a specified instance.
Modifying an Instance	Modify the name and description of an instance.
Deleting an Instance	Delete a specified instance and release all the resources occupied by it.
Restarting or Deleting Instances in Batches	Restart or delete multiples instances at one time.
Querying All Instances	Query the instances of a tenant by set conditions.
Querying AZ Information	Query AZ information.
Querying Product Specifications	Query product specifications.
Querying Maintenance Time Windows	Query maintenance time windows.

3 Calling APIs

3.1 Making an API Request

This section describes the structure of a REST API request, and uses the IAM API for **obtaining a user token** as an example to demonstrate how to call an API. The obtained token can then be used to authenticate the calling of 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.

• 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**.

• resource-path:

Access path of an API for performing a specified operation. Obtain the value from the URI of the API. For example, the **resource-path** of the API used to **obtain a user token** is **/v3/auth/tokens**.

• query-string:

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

NOTE

To simplify the URI display in this document, each API is provided only with a **resourcepath** 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 the server to return specified resources.
- **PUT**: requests the server to update specified resources.
- **POST**: requests the server to add resources or perform special operations.
- **DELETE**: requests the server to delete specified resources, for example, an object.
- **HEAD**: requests a server resource header.
- **PATCH**: requests the server to update partial content of a specified resource. If the resource does not exist, a new resource will be created.

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

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

Request Header

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

Common request headers are as follows:

- **Content-Type**: specifies the request body type or format. This field is mandatory and its default value is **application/json**. Other values of this field will be provided for specific APIs if any.
- **X-Auth-Token**: specifies a user token only for token-based API authentication. The user token is a response to the API used to **obtain a user token**. This API is the only one that does not require authentication.

In addition to supporting token-based authentication, DMS APIs also support authentication using access key ID/secret access key (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**.

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

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

Request Body

The body of a request is often sent in a structured format as specified in the **Content-Type** header field. The request body transfers content except the request header.

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

NOTE

The **scope** parameter specifies where a token takes effect. You can set the **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://{{endpoint}}/v3/auth/tokens Content-Type: application/json

```
{
  "auth": {
      "identity": {
        "methods": [
           "password"
        1,
         'password": {
           "user": {
              "name": "username",
              "password": " *******
              "domain": {
                 "name": "domainname"
             }
          }
        }
     },
"scope": {
        "project": {
           "name": "xxxxxxxxxxxxxxxx"
        }
     }
  }
}
```

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 to obtain a user token, **x-subject-token** is the desired user token. This token can then be used to authenticate the calling of other APIs.

3.2 Authentication

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

- Token-based authentication: Requests are authenticated using a token.
- AK/SK-based authentication: Requests are authenticated by encrypting the request body using an AK/SK pair. AK/SK-based authentication is recommended because it provides higher security than token authentication.

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 requests to get permissions for calling the API. You can obtain a token by calling the API used to **obtain a user token** 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**.

DMS is a project-level service. When calling a DMS API, a project-level token is required. Therefore, when you call the API used to **obtain a user token**, set **auth.scope** in the request body to **project**.

```
{
  "auth": {
     "identity": {
        "methods": [
           "password"
        1,
        "password": {
           "user": {
             "name": "username",
              "password": " *******
             "domain": {
                "name": "domainname"
             }
          }
        }
     },
      "scope": {
        "project": {
           "name": "xxxxxxx"
        }
     }
  }
```

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

POST https://{{endpoint}}/v3/auth/projects Content-Type: application/json X-Auth-Token: ABCDEFJ....

AK/SK-based Authentication

D 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 requests 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.

3.3 Response

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 request. For more information, see **Status Code**.

For example, if status code **201** is returned for calling the API used to **obtain a user token**, the request is successful.

Response Header

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

Figure 3-1 shows the response header for the API of **obtaining a user token**, in which **x-subject-token** is the desired user token. This token can then be used to authenticate the calling of other APIs.

```
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

    MITXQVJKoZIhvcNAQcCoIIYTjCCGEoCAQExDTALBglghgBZQMEAgEwgharBgkqhkiG9w0B8wGgghacBIIWmHsidG9rzW4iOnsiZXhwaXJlc19hdCI6IjiwMTktMDltMTNUMD
    MITXQVJKoZIhvcNAQcCoIIYTjCCGEoCAQExDTALBglghkgBZQMEAgEwgharBgkqhkiG9w0B8wGgghacBIIWmHsidG9rzW4iOnsiZXhwaXJlc19hdCI6IjiwMTktMDltMTNUMD
    MITXQVJKoZIhvcNAQcCoIIYTjCCGEoCAQExDTALBglghkgBZQMEAgEwgharBgkqhkiG9w0B8wGgghacBIIWmHsidG9rzW4iOnsiZXhwaXJlc19hdCI6IjiwMTktMDltMTNUMD
    MITXQVJKoZIhvcNAQcCoIIYTjCCGEoCAQExDTALBglghkgBZQMEAgEwgharBgkqhkiG9w0B8wGgghacBIIWmHsidG9rzW4iOnsiZXhwaXJlc19hdCI6IjiwMTktMDltMTNUMD
    MITXQVJKoZIhvcNAQcCoIIYTjCCGEoCAQExDTALBglghkgBZQMEAgEwgharBgkqhkiG9w0B8wGgghacBIIWmHsidG9rzW4iOnsiZXhwaXJlc19hdCI6IjiwMTktMDltMTNUMD
    MITXQVJKoZIhvcNAQcCoIIYTjCCGEoCAQExDTALBglghkgBZQMEAgEwgharBgkqhkiG9w0B8wGgghacBIIWmHsidG9rzW4iOnsiZXhwaXJlc19hdCI6IjiwMTktMDltMTNUMD
    MITXQVJKoZIhvcNAQcCoIIYTjCCGEoCAQExDTALBglghkgBZQMEAgEwgharBgkqhkiG9w0B8wGgghacBIIWmHsidG9rzW4iOnsiZXhwaXJlc19hdCI6IjiwMTktMDltMTNUMD
    MITXQVJKoZIhvcNAQcCoIIYTjCCGEoCAQExDTALBglghkgBZQMEAgEwgharBgkqhkiG9w0B8wGgghacBIIWmHsidG9rzW4iOnsiZXhwaXJlc19hdCI6IjiwMTktMDltMTNUMD
    MITXQVJKoZIhvcNAQcOIIYTjCCGEoCAQExDTALBglghkgBZQMEAgEwgharBgkqhkiG9w0B8wGgghacBIIWmHsidG9rzW4iOnsiZXhwaXJlc19hdCI6IjiwMTktMDltMTNUMD
    MITXQVINADUAgEWghkgBZw0AgeWghkgghkgBZw0AgeWghacBIIWmHsidG9rzW4iOnsiZXhwaXJlc19hdCi6IjiwMTktMDltAJ+33wEI

   HRCF91870+k9.
     RzT6MUbpvGw-oPNFYxJECKnoH3HRozv0vN--n5d6Nbxg==
 x-xss-protection → 1; mode=block;
```

Figure 3-1 Header fields of the response to the request for obtaining a user token

(Optional) Response Body

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

The following is part of the response body for the API used to **obtain a user token**.

If an error occurs during API calling, an error code and a message will be displayed. The following shows an error response body.

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

In the response body, **error_code** is an error code, and **error_msg** provides information about the error.

4 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-lxy001",
"engine": "RabbitMQ",
"engine_version": "3.7.17",
"storage_space": 100,
"access_user": "user",
"password": "*******",
"vpc_id": "1a28dcc5-c90d-421c-82bb-783f30f5b40a",
"security_group_id": "0cc8fdb7-872a-49da-a062-88ccc39463b5",
"subnet_id": "ebba7994-260d-42ab-bce1-39a08b365dc8",
"available_zones": ["d573142f24894ef3bd3664de068b44b0"],
"storage_spec_code": "dms.physical.storage.ultra",
"product_id": "00300-30109-0--0"
```

- **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 Table 5-2.
- access_user: user-defined username for logging in to RabbitMQ
- password: user-defined password for logging in to RabbitMQ

- **vpc_id**: ID of the Virtual Private Cloud (VPC) where the instance resides. For details, see *Virtual Private Cloud API Reference*.
- **security_group_id**: ID of the security group.
- **subnet_id**: ID of the VPC subnet.
- **available_zones**: ID of the AZ where the instance resides. The value cannot be empty or null. For details, see **Querying AZ Information**.
- product_id: ID of the product. For details, see Querying Product Specifications.
- storage_spec_code: storage I/O specification. For details about the value range, see Table 5-2.

5 APIs for Managing Instances

5.1 Creating an Instance

Function

This API is used to create an instance.

URI

POST /v1.0/{project_id}/instances

 Table 5-1 describes the parameter.

Table 5-1 Parameter description

Parameter	Туре	Manda tory	Description
project_id	String	Yes	Indicates the ID of a project.

Request

Request parameters

Table 5-2 describes the request parameters.

Table 5-2 Parameter description

Parameter	Туре	Manda tory	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_vers ion	String	No	Indicates the version of the message engine.	
storage_spa ce	Integer	Yes	Indicates the message storage space. Unit: GB	
			 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:	
			 Must be a string consisting of 8 to 32 characters. 	
			 Must contain at least two of the following character types: 	
			 Lowercase letters 	
			 Uppercase letters 	
			– Digits	
			– Special characters `~!@#\$%^&*()=+\ [{}];:',<.>/?	

Parameter	Туре	Manda tory	Description
vpc_id	String	Yes	Indicates the ID of a VPC.
security_gro up_id	String	Yes	Indicates the ID of a security group.
subnet_id	String	Yes	Indicates the ID of a subnet.
available_z ones	Array	Yes	Indicates the ID of an AZ. The parameter value cannot be empty or null. For details, see Querying AZ Information .
product_id	String	Yes	Indicates the product ID.
			For details, see Querying Product Specifications.
maintain_b egin	String	No	Indicates the time at which a maintenance time window starts.
			Format: HH:mm.
			• 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	Туре	Manda tory	Description	
maintain_e nd	String	No	Indicates the time at which a maintenance time window ends.	
			Format: HH:mm.	
			• 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_pub licip	Boolea n	No	Indicates whether to enable public access for a RabbitMQ instance.	
			• true: enable	
			• false: disable	
publicip_id	String	No	Indicates the ID of the elastic IP address (EIP) bound to a RabbitMQ instance.	
			This parameter is mandatory if public access is enabled (that is, enable_publicip is set to true).	
ssl_enable	Boolea n	No	Indicates whether to enable SSL-encrypted access.	
			• true: enable	
			• false : disable	
storage_spe	String	Yes	Indicates storage I/O specification.	
c_code			Options:	
			dms.physical.storage.normal:	
			 dms.physical.storage.high 	
			dms.physical.storage.ultra	
enterprise_ project_id	String	No	Indicates the enterprise project ID.	

Example request of a RabbitMQ instance

3

}

```
"name": "rabbitmq-demo",
"description": ""
"engine": "RabbitMQ"
"engine_version": "3.7.17",
"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 5-3 describes the response parameter.

Table 5-3	Parameter	description
-----------	-----------	-------------

Parameter	Туре	Description
instance_id	String	Indicates the instance ID.

Example response

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

Status Code

Table 5-4 describes the status code of successful operations. For details about other status codes, see **Status Code**.

Table 5-4 Status code

Status Code	Description
200	The instance is created successfully.

5.2 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 5-5 describes the parameters.

 Table 5-5
 Parameter description

Parameter	Туре	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 5-6 describes the response parameters.

Table 5-6 Parameter description

Parameter	Туре	Description	
name	String	Indicates the instance name.	
engine	String	Indicates the message engine.	
engine_version	String	Indicates the version of the message engine.	

Parameter	Туре	Description
specification	String	Indicates the instance specification.
		 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_s pace	Integer	Indicates the used message storage space. Unit: GB
connect_addres s	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	Туре	Description
resource_spec_c ode	String	 Indicates the resource specifications identifier. 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	Indicates the instance type. Options: • single: single-node instance
		 single: single-node instance cluster: cluster instance

Parameter	Туре	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 5-7 .	
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. • true : enable • false : disable	

Parameter	Туре	Description
publicip_addres s	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_c onnect_address	String	Indicates the management address of a RabbitMQ instance.
ssl_enable	Boolean	Indicates whether to enable security authentication.
		• true: enable
		• false : disable
enterprise_proje ct_id	String	Indicates the enterprise project ID.
is_logical_volu me	Boolean	Distinguishes old instances from new instances during instance capacity expansion.
		• true : New instance, which allows dynamic disk capacity expansion without restarting the instance.
		• false: Old instance.
extend_times	String	Indicates the number of disk expansion times. If it exceeds 20, the disk cannot be expanded.

Table 5-7 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" : "3.7.17",
  "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": "XXXXXXXXX,",
  "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 5-8 describes the status code of successful operations. For details about other status codes, see **Status Code**.

Table 5-8 Status code

Status Code	Description
200	Specified instance queried successfully.

5.3 Modifying an Instance

Function

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

URI

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

Table 5-9 Parameter description

Parameter	Туре	Mandatory	Description
project_id	String	Yes	Indicates the ID of a project.
instance_id	String	Yes	Indicates the instance ID.

Request

Request parameters

Table 5-10 describes the request parameters.

Table	5-10	Parameter	description
-------	------	-----------	-------------

Parameter	Туре	Man dato ry	Description
name	String	No	Indicates the instance name. An instance name consists of 4 to 64 characters of letters, digits, and hyphens (-), and must start with a letter.

Parameter	Туре	Man dato ry	Description
description	String	No	Indicates the description of an instance. It is a character string containing not more than 1024 characters. NOTE The backslash (\) and quotation mark (") are special characters for JSON packets. When using these characters in a parameter value, add the escape character (\) before these characters, for example, \\ and \".
maintain_begin	String	No	 Indicates the time at which a maintenance time window starts. Format: HH:mm:ss. The start time and end time of the maintenance time window must indicate the time segment of a supported maintenance time window. For details about how to query the time segments of supported maintenance time windows, see Querying Maintenance Time Windows. The start time must be set to 22:00:00, 02:00:00, 06:00:00, 10:00:00, 14:00:00, or 18:00:00. Parameters maintain_begin and maintain_end must be set in pairs. If parameter maintain_begin is left blank, parameter maintain_end is also left blank. In this case, the system automatically set the start time to 02:00:00.

Parameter	Туре	Man dato ry	Description
maintain_end	String	No	Indicates the time at which a maintenance time window ends.
			 Format: HH:mm:ss. The start time and end time of the maintenance time window must indicate the time segment of a supported maintenance time window. For details about how to query the time segments of supported maintenance time windows, see Querying Maintenance Time Windows. The end time is four hours later than the start time. For example, if the start time is 22:00:00, the end time is a support of the start time is 22:00:00, the end time is a support of the start time is a support of time is a support of the start time is a support of time is a support of the start time is a support of the start time is a support of time is a sup
			 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_i d	String	No	Indicates the security group ID.
enable_publicip	Boolean	No	 Indicates whether to enable public access for a RabbitMQ instance. true: enable false: disable
publicip_id	String	No	Indicates the ID of the EIP bound to a RabbitMQ instance. This parameter is mandatory if public access is enabled (that is, enable_publicip is set to true).

Example request

Example 1:

```
{
    "name": "dms002",
    "description": "instance description"
}
```

Example 2:



Response

Response parameters

None.

Example response

None.

Status Code

Table 5-11 describes the status code of successful operations. For details about other status codes, see **Status Code**.

Table 5-11 Status code

Status Code	Description
204	The instance is modified successfully.

5.4 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 5-12 describes the parameters.

Table 5-12 Parameter description

Parameter	Туре	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 5-13 describes the status code of successful operations. For details about other status codes, see **Status Code**.

 Table 5-13
 Status code

Status Code	Description
204	The instance is deleted successfully.

5.5 Restarting or Deleting Instances in Batches

Function

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

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

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

URI

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

Table 5-14 describes the parameter.

Table 5-14 Parameter description

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

Request

Request

 Table 5-15 describes the request parameters.

 Table 5-15
 Parameter description

Parameter	Туре	Mandatory	Description
action	String	Yes	Indicates the operation to be performed on instances. The value of this parameter can be restart or delete .
instances	Array	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

Restarting instances in batches:

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

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 5-16** describes the parameters.

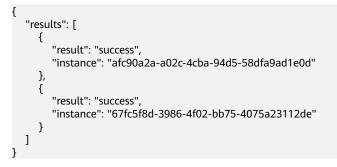
Table 5-16 Parameter description

Parameter	Туре	Description
results	Array	Indicates the result of instance modification.

Table 5-17 results parameter description

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

Example response



Status Code

Table 5-18 describes the status code of successful operations. For details about other status codes, see **Status Code**.

 Table 5-18
 Status code

Status Code	Description
200	The instances are restarted or deleted successfully.

5.6 Querying 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={includeF ailure}&exactMatchName={exactMatchName}&enterprise_project_id={enterprise_p roject_id}

 Table 5-19 describes the parameters.

Paramet er	Туре	Mandat ory	Description
project_i d	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 .
includeF ailure	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.
exactMat chName	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.

Paramet er	Туре	Mandat ory	Description
enterpris e_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 5-20 describes the response parameters.

Table 5-20 Parameter description

Parameter	Туре	Description
instances	Array	Indicates instance details.
instance_num	Integer	Indicates the number of instances.

 Table 5-21 instance parameter description

Parameter	Туре	Description
name	String	Indicates the instance name.
engine	String	Indicates the message engine.
engine_version	String	Indicates the engine version.

Parameter	Туре	Description
specification	String	Indicates the specifications of an instance.
		 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_s pace	Integer	Indicates the used message storage space. Unit: GB
connect_addres s	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	Туре	Description
resource_spec_c ode	String	 Indicates the resource specifications identifier. 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	Туре	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 5-7 .
user_id	String	Indicates the user ID.
user_name	String	Indicates the username.
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	Time at which the maintenance time window ends. Format: HH:mm
enable_publicip	Boolean	 Indicates whether public access has been enabled for a RabbitMQ instance. true: enable false: disable
publicip_addres s	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_c onnect_address	String	Indicates the management address of a RabbitMQ instance.
ssl_enable	Boolean	 Indicates whether to enable security authentication. true: enable false: disable
enterprise_proj ect_id	String	Indicates the enterprise project ID.

Parameter	Туре	Description
is_logical_volu me	Boolean	Distinguishes old instances from new instances during instance capacity expansion.
		 true: New instance, which allows dynamic disk capacity expansion without restarting the instance.
		• false : Old instance.
extend_times	String	Indicates the number of disk expansion times. If it exceeds 20, the disk cannot be expanded.

Example response



Status Code

Table 5-22 describes the status code of successful operations. For details about other status codes, see **Status Code**.

Table 5-22 Status code

Status Code	Description
200	All instances are queried successfully.

6 Other APIs

6.1 Querying AZ Information

Function

This API is used to query the AZ ID.

URI

GET /v1.0/availableZones

Request

Request parameters

None.

Example request

GET https://{dms_endpoint}/v1.0/availableZones

Response

Response parameters

 Table 6-1 and Table 6-2 describe the parameters.

Table 6-1 Response parameters

Parameter	Туре	Description
regionId	String	Indicates the region ID.
available_zon es	Array	Indicates details of AZs. For details, see Table 6-2 .

Parameter	Туре	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_av ailability	String	 Indicates whether an AZ has available resources. true: The AZ has available resources. false: Resources of the AZ have been sold out.

Table 6-2 available_zones par	rameter description
-------------------------------	---------------------

Example response

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

Status Code

Table 6-3 describes the status code of successful operations. For details about other status codes, see **Status Code**.

Table 6-3 Status code

Status Code	Description
200	The AZ information is successfully queried.

6.2 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 6-4 describes the parameter.

Table 6-4 Parameter description

Parameter	Туре	Manda tory	Description
engine	String	No	Indicates the message engine.

Request

Request parameters

None.

Example Request

None.

Response

Response parameters

 Table 6-5 describes the response parameters.

Table 6-5 Parameter description

Parameter	Туре	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 6-6 values parameter description

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

Table 6-7 detail parameter description of single-node RabbitMQ instances

Parameter	Туре	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 6-8 detail parameter description of cluster RabbitMQ instances

Parameter	Туре	Description
vm_specification	String	Indicates VM specifications.
product_info	Array	Indicates the product information.

 Table 6-9 product_info parameter description

Parameter	Туре	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.	
product_id	String	Indicates the product ID.	
spec_code	String	Indicates the specification ID.	

Table 6-10 io parameter description

Parameter	Туре	Description
io_type	String	Indicates the I/O type.

{

Parameter	Туре	Description
storage_spec_co de	String	Indicates the I/O specification.

Example response

List of RabbitMQ instance specifications:

```
"Hourly": [
 {
   "name": "RabbitMQ",
"version": "3.7.17",
   "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",
'...t_id": "00
    "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.rabbitmg.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.rabbitmg.cluster.c3.16u32g.7"
          }
        ]
       }
     ],
     "name": "cluster"
    }
  ]
}
"Monthly": [
 {
  "name": "RabbitMQ",
  "version": "3.7.17",
   "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",
"00200_20114-0--0".
    "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"
     }
    1,
```

```
"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"
      },
      {
       "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": "00300-30222-0--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": "00300-30224-0--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": "00300-30226-0--0",
           "spec_code": "dms.instance.rabbitmq.cluster.c3.16u32g.7"
         }
       ]
     }
    ],
     "name": "cluster"
   }
 ]
}
```

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
200	Product specifications queried successfully.

6.3 Querying Maintenance Time Windows

Function

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

URI

GET /v1.0/instances/maintain-windows

Request

Request parameters

None.

Example Request

GET https://{dms_endpoint}/v1.0/instances/maintain-windows

Response

Response parameters

 Table 6-12 and Table 6-13 describe the response parameters.

 Table 6-12
 Parameter
 description

Parameter	Туре	Description
maintain_win dows	5	Indicates a list of supported maintenance time windows.

Table 6-13 maintain_windows parameter description

Parameter	Туре	Description
seq	Integer	Indicates the sequential number of a maintenance time window.
begin	String	Indicates the time at which a maintenance time window starts.
end	String	Indicates the time at which a maintenance time window ends.
default	Boolean	Indicates whether a maintenance time window is set to the default time segment.

Example response

```
{
   "maintain_windows": [
      {
          "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 6-14 describes the status code of successful operations. For details about other status codes, see **Status Code**.

 Table 6-14
 Status code

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

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

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

NOTE

If you want to allow or deny the access to an API, fine-grained authorization is a good choice.

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

Supported Actions

IAM provides system-defined policies that can be directly used. You can also create custom policies and use them to supplement system-defined policies, implementing more refined access control. Operations supported by policies are specific to APIs. The following lists common 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 project or enterprise projects: type of projects for which an action will take effect. 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.

Permissions	APIs	Actions	IAM Project	Enterprise Project
Creating an instance	POST /v1.0/ {project_id}/ instances	dms:instance:cre ate	\checkmark	\checkmark
Viewing instance details	GET /v1.0/ {project_id}/ instances/ {instance_id}	dms:instance:get	\checkmark	\checkmark
Modifying an instance	PUT /v1.0/ {project_id}/ instances/ {instance_id}	dms:instance:mo dify	\checkmark	\checkmark
Deleting an instance	DELETE /v1.0/ {project_id}/ instances/ {instance_id}	dms:instance:del ete	\checkmark	\checkmark
Modifying instance specification s	POST /v1.0/ {project_id}/ instances/ {instance_id}/ extend	dms:instance:scal e	\checkmark	\checkmark
Querying all instances	GET /v1.0/ {project_id}/ instances	dms:instance:list	\checkmark	\checkmark
Restarting an instance	POST /v1.0/ {project_id}/ instances/ action	dms:instance:mo difyStatus	\checkmark	\checkmark

Table 7-1 DMS for RabbitMQ actions

Permissions	APIs	Actions	IAM Project	Enterprise Project
Changing instance passwords	This operation is supported only by using the console and not by calling APIs.	dms:instance:mo difyAuthInfo	\checkmark	\checkmark
Resetting Instance Passwords	This operation is supported only by using the console and not by calling APIs.	dms:instance:rese tAuthInfo	\checkmark	\checkmark
Querying one or more background tasks that have not been deleted	This operation is supported only by using the console and not by calling APIs.	dms:instance:get BackgroundTask	\checkmark	\checkmark
Deleting a background task	This operation is supported only by using the console and not by calling APIs.	dms:instance:del eteBackgroundTa sk	\checkmark	\checkmark
Changing public access bandwidth or enabling or disabling public access	This operation is supported only by using the console and not by calling APIs.	dms:instance:mo dify	\checkmark	\checkmark
Querying public access bandwidth	This operation is supported only by using the console and not by calling APIs.	dms:instance:get	√	\checkmark

8 Appendix

8.1 Status Code

 Table 8-1 lists status codes.

Table 8-1 Status codes

Status Code	Name	Description
100	Continue	The server has received the initial part of the request and the client should continue to send the remaining part.
101	Switching Protocols	The requester has asked the server to switch protocols and the server has agreed to do so. The target protocol must be more advanced than the source protocol.
		For example, the current HTTP protocol is switched to a later version of HTTP.
200	ОК	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	MethodNotAllow ed	A request method is not supported for the requested resource.
		The client should modify the request instead of re-initiating it.
406	Not Acceptable	The server cannot fulfill the request based on the content characteristics of the request.
407	Proxy Authentication Required	This code is similar to 401, but indicates that the client must first authenticate itself with the proxy.
408	Request Time-out	The server timed out when waiting for the request.
		The client may re-initiate the request without any modification at any time.
409	Conflict	The request cannot be processed due to a conflict, such as an edit conflict between multiple simultaneous updates or the resource that the client attempts to create already exits.
410	Gone	The requested resource has been deleted permanently and will not be available again.
411	Length Required	The server refused to process the request because the request does not specify the length of its content.
412	Precondition Failed	The server does not meet one of the preconditions that the requester puts on the request.
413	Request Entity Too Large	The server refuses to process a request because the request is too large. The server may close the connection to prevent the client from continuing the request. If the server cannot process the request temporarily, the response will contain a Retry-After field.
414	Request-URI Too Large	The URI provided was too long for the server to process.
415	Unsupported Media Type	The server does not support the media type in the request.
416	Requested range not satisfiable	The requested range is invalid.
417	Expectation Failed	The server fails to meet the requirements of the Expect request-header field.

Status Code	Name	Description
422	UnprocessableEn- tity	The request is well-formed but is unable to be processed due to semantic errors.
429	TooManyRequest s	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	InternalServerEr- ror	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	ServiceUnavaila- ble	The requested service is invalid. The client should modify the request instead of re-initiating it.
504	ServerTimeout	The request cannot be fulfilled within a given time. The response will reach the client only if the request carries the timeout parameter.
505	HTTP Version not supported	The server does not support the HTTP protocol version used in the request.

8.2 Error Code

Table 8-2 Error codes of RabbitMQ instances

Status Code	Error Code	Description
400	11140000 2	The project ID format is invalid.
400	11140000 4	The request body is empty.
400	11140000 5	The message body is not in JSON format or contains invalid characters.
400	11140000 7	Unsupported type.

Status Code	Error Code	Description
400	11140000 8	Unsupported version.
400	11140000 9	Invalid product_id .
400	11140001 0	Invalid instance name. The name must be 4 to 64 characters long. Only letters, digits, underscores (_), and hyphens (-) are allowed.
400	11140001 1	The instance description can contain a maximum of 1024 characters.
400	11140001 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 `~!@#\$%^&*()=+\ [{}];:',<.>/?
400	11140001 3	vpc_id in the request is empty.
400	11140001 4	security_group_id in the request is empty.
400	11140001 5	Invalid username. A username must be 4 to 64 characters long and consist of only letters, digits, and hyphens (-).
400	11140001 6	subnet_id in the request is empty.
400	11140001 8	This subnet must exist in the VPC.
400	11140001 9	The password does not meet the complexity requirements.
400	11140002 0	DHCP must be enabled for this subnet.
400	11140002 6	This operation is not allowed due to the instance status.
400	11140003 7	The instanceParams parameter in the request contains invalid characters or is not in JSON format.

Status Code	Error Code	Description
400	11140003 8	The periodNum parameter in the request must be an integer.
400	11140004 2	The AZ does not exist.
400	11140004 6	This security group does not exist.
400	11140004 8	Invalid security group rules. Ensure that rules with the protocol being ANY are configured for both the inbound and outbound directions.
400	11140006 0	This instance name already exists.
400	11140006 1	Invalid instance ID format.
400	11140006 2	Invalid request parameter. The status of an instance to be queried must be a value listed in Table 8-3 .
400	11140006 3	Invalid configuration parameter {0}.
400	11140006 4	The action parameter in the request must be delete or restart .
400	11140006 5	The instances parameter in the request is empty.
400	11140006 6	Invalid configuration parameter {0}.
400	11140006 7	The available_zones parameter in the request must be an array that contains only one AZ ID.
400	11140006 8	The VPC does not exist.
400	11140008 0	Incorrect instance password.
400	11140008 1	Duplicate instance name.
400	11140009 9	The following instances in the Creating, Starting, Stopping, or Restarting state cannot be deleted: {}
400	11140010 0	The instances array can contain a maximum of 50 instance IDs.
400	11140010 6	Invalid maintenance time window.

Status Code	Error Code	Description
401	11140100 1	Invalid token.
401	11140100 3	The token is missing.
401	11140100 4	The project ID and token do not match.
403	11140300 2	A tenant has the read-only permission and cannot perform operations on DMS.
403	11140300 3	This role does not have the permissions to perform this operation.
404	11140400 1	The requested URL does not exist.
404	11140402 2	This instance does not exist.
404	11140402 4	Connector does not exist.
404	11140402 7	Connector already exists.
405	11140500 1	This request method is not allowed.
400	11140050 0	Invalid disk space.
400	11140012 5	Invalid SPEC_CODE.
400	11140012 4	The maximum number of disk expansion times has been reached.
500	11150000 0	Internal service error.
500	11150000 6	Internal service error.
500	11150001 7	Internal service error.
500	11150002 3	Internal service error.
500	11150002 4	Internal service error.

Status Code	Error Code	Description
500	11150002 5	Internal service error.
500	11150004 1	Internal service error.
500	11150005 1	Internal service error.
500	11150005 2	Internal service error.
500	11150005 3	Internal service error.
500	11150005 4	Internal service error.
500	11150007 0	Internal service error.
500	11150007 1	Internal service error.
500	11150009 4	Internal service error.
500	11150010 6	Internal service error.

8.3 Instance Status

Table 8-3 Instance status description

Status	Description
CREATING	The instance is being created.
CREATEFAILED	The instance fails to be created.
RUNNING	The instance is running properly. Only instances in the Running state can provide services.
ERROR	The instance is not running properly.
RESTARTING	The instance is being restarted.
EXTENDING	The instance specifications are being changed.
EXTENDEDFAILED	The instance specifications failed to be changed.
DELETING	The instance is being deleted.

Status	Description
DELETED	The instance has been deleted.

8.4 Obtaining a Project ID

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 in the upper right corner and choose **My Credential** from the drop-down list.

On the **My Credential** page, view the project IDs in the project list.

If there are multiple projects in one region, expand **Region** and view sub-project IDs in the **Project ID** column.

----End

8.5 Obtaining the Domain Name and Domain ID

The domain name and domain ID are required for some URLs when an API is called. To obtain the domain name and domain ID, perform the following operations:

- 1. Log in to the management console.
- 2. Click the username in the upper right corner and choose **My Credential** from the drop-down list.

Viewing the domain name and domain ID



Date	Description
2022-08-12	This issue is the first official release.