

Server Migration Service

API Reference

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1 Before You Start

1.1 Overview

Welcome to *Server Migration Service API Reference*. Server Migration Service (SMS) helps you migrate applications and data from on-premises x86 physical servers or VMs on other private or public clouds to Elastic Cloud Servers (ECSs) on Huawei Cloud.

This document describes how to use SMS application programming interfaces (APIs) to perform operations such as creating, deleting, and querying migration tasks. For details about all supported operations, see [API Overview](#).

If you plan to access SMS through an API, ensure that you are familiar with SMS concepts. For details, see [Service Overview](#).

1.2 API Calling

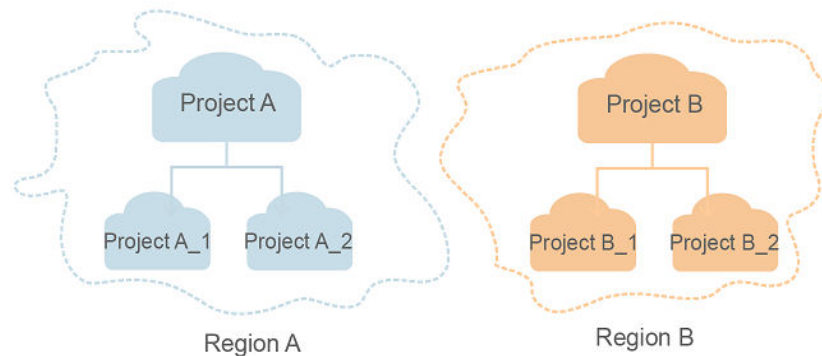
SMS supports Representational State Transfer (REST) APIs, allowing you to call APIs using HTTPS. For details about API calling, see [Calling APIs](#).

1.3 Concepts

- Account
An account is created upon successful registration. The account has full access permissions for all of its cloud services and resources. It can be used to reset user passwords and grant user permissions. The account is a payment entity, which should not be used directly to perform routine management. For security purposes, create Identity and Access Management (IAM) users and grant them permissions for routine management.
- User
An IAM user is created by an account in IAM to use cloud services. Each IAM user has its own identity credentials (password and access keys).
API authentication requires information such as the account name, username, and password.

- **Region**
Regions are divided based on geographical location and network latency. Public services, such as Elastic Cloud Server (ECS), Elastic Volume Service (EVS), Object Storage Service (OBS), Virtual Private Cloud (VPC), Elastic IP (EIP), and Image Management Service (IMS), are shared within the same region. Regions are classified into universal regions and dedicated regions. A universal region provides universal cloud services for common tenants. A dedicated region provides specific services for specific tenants.
For details, see [Region and AZ](#).
- **AZ**
An AZ comprises of one or more 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**
A project corresponds to a region. Default projects are defined to a group and have physically isolated resources (including computing, storage, and network resources) across regions. Users can be granted permissions in a default project to access all resources in the region under their accounts. If you need more refined access control, create subprojects under a default project and create resources in subprojects. Then you can assign users the permissions required to access only the resources in the specific subprojects.

Figure 1-1 Project isolation model



- **Enterprise project**
Enterprise projects group and manage resources across regions. Resources in different enterprise projects are logically isolated. An enterprise project can contain resources of multiple projects, and resources can be added to or removed from enterprise projects.
For details about enterprise projects and about how to obtain enterprise project IDs, see [Enterprise Management User Guide](#).

2 API Overview

The APIs provided by the SMS service are the SMS APIs. By using the SMS APIs, you can use all the functions provided by the SMS service, including querying the source server list, creating migration tasks, and viewing the migration progress.

Table 2-1 SMS API list

| Type | Description |
|--------------------------|---|
| Source server management | APIs used for reporting information about source servers, querying the source server list, and deleting the source servers |
| Task management | APIs used for managing migration tasks, including creating, starting, stopping, querying, and deleting a migration task. |
| Command management | APIs used for obtaining the commands from the service end and reporting the command execution results to the service end |
| Template management | APIs used for querying the template list and the information about a template with a specified ID, and adding, modifying, and deleting template information |

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.

Table 3-1 URI parameter description

| 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 EU-Dublin region is iam.myhuaweicloud.eu . |
| 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 to obtain 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 **CN North-Beijing1** region, obtain the endpoint of IAM (**iam.cn-north-1.myhuaweicloud.com**) for this region and the **resource-path** (**/v3/auth/tokens**) in the URI of the API used to **obtain a user token**. Then, construct the URI as follows:

```
https://iam.myhuaweicloud.eu/v3/auth/tokens
```

 **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.

Table 3-2 HTTP methods

| Method | Description |
|--------|---|
| 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 | Same as GET except that the server must return only the response 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.myhuaweicloud.eu/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 header fields are as follows.

Table 3-3 Common request header fields

| Parameter | Description | Mandatory | Example Value |
|----------------|---|---|--|
| Host | Specifies the server domain name and port number of the resources being requested. The value can be obtained from the URL of the service API. The value is in the format of <i>Hostname:Port number</i> . If the port number is not specified, the default port is used. The default port number for https is 443 . | No This field is mandatory for AK/SK authentication. | code.test.com or code.test.com:443 |
| Content-Type | Specifies the type (or format) of the message body. 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 | Specifies the length of the request body. The unit is byte. | No | 3495 |

| Parameter | Description | Mandatory | Example Value |
|--------------|--|---|---|
| X-Project-Id | Specifies the project ID. Obtain the project ID by following the instructions in Obtaining a Project ID . | No This field is mandatory for requests that use AK/SK authentication in the Dedicated Cloud (DeC) scenario or multi-project scenario. | e9993fc787d94b6c886cb aa340f9c0f4 |
| X-Auth-Token | Specifies the user token. It is a response to the API for obtaining a user token (This is the only API that does not require authentication). After the request is processed, the value of X-Subject-Token in the response header is the token value. | No This field is mandatory for token authentication. | The following is part of an example token: MIIPAgYJKoZIhvcNAQc-Co...ggg1BBIINPXsidG9rZ |

 **NOTE**

In addition to supporting authentication using tokens, APIs support authentication using AK/SK, which uses SDKs to sign a request. During the signature, the **Authorization** (signature authentication) and **X-Sdk-Date** (time when a request is sent) headers are automatically added in the request.

For more details, see **Authentication Using AK/SK** in [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.myhuaweicloud.eu/v3/auth/tokens
Content-Type: application/json
```

(Optional) Request Body

The body of a request is often sent in a structured format (JSON or XML) 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.

In the case of the API used to [obtain a user token](#), the request parameters and parameter description can be obtained from the API request. The following provides an example request with a body included. Replace *username*, *domainname*, ******* (login password), and *xxxxxxxxxxxxxxxxxxxx* (project name) with the actual values. Obtain a project name 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.myhuaweicloud.eu/v3/auth/tokens
Content-Type: application/json

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

If all data required for the API 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 is more secure than token-based 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 [Obtaining User Token](#) API. When you call the API, set **auth.scope** in the request body to **domain**.

```
{
  "auth": {
    "identity": {
      "methods": [
        "password"
      ],
      "password": {
        "user": {
          "name": "username",
          "password": "*****",
          "domain": {
            "name": "domainname"
          }
        }
      }
    },
    "scope": {
      "domain": {
        "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://iam.myhuaweicloud.eu/v3/auth/projects
Content-Type: application/json
X-Auth-Token: ABCDEFJ....
```

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 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 using the signing SDK. For details about how to sign requests and use the signing SDK, see [API Request Signing Guide](#).

 **NOTE**

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 a 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 Codes](#).

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 fields for the API used to [obtain a user token](#). The **x-subject-token** header field is the desired user token. This token can then be used to authenticate the calling of other APIs.

Figure 3-1 Header fields 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
→ MIiYXQYJKoZIhvcNAQcCoIIYJCCGEoCAQExDTALBglghkgBZQMEAgEwgharBgkqhkiG9w0BBwGgghacBIIWmHsidG9rZW4iOnsiZXhwaXJlc19hdCI6IjwMTktMDItMTNUMDc6fj3KJ56YgKnpVNRbW2eZ5eb78SZOkajACgklqO1wi4JlGzrpd18LGXK5tdfdq4lqHCYb8P4NaYONVeYcAgzJVeFYtLWT1GSO0zxKZmlQHqJ82HBqHdgIZO9fuEbL5dMhdavj+33wEIxHRCE9I87o+k9-j+CMZSEB7bUGd5Uj6eRASXI1jipPEGA270g1FruooL6jqglFKNPQuFSOU8+uSsttVwRtnfsC+qT22Rkd5MCqFGQ8LcuUxC3a+9CMBnOintWW7oeRUVhVpxk8pxiX1wTEboX-RzT6GMUbpvGw-oPNFYxJECKnoH3HRozv0vN--n5d6Nbxg==

x-xss-protection → 1; mode=block;
    
```


(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 shows part of the response body for the API to [obtain a user token](#). For the sake of space, only part of the content is displayed here.

```
{
  "token": {
    "expires_at": "2019-02-13T06:52:13.855000Z",
    "methods": [
      "password"
    ],
    "catalog": [
      {
        "endpoints": [
          {
            "region_id": "az-01",
            .....

```

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 Application Examples

4.1 Creating a Migration Task

Scenarios

This section describes how to create a migration task by calling APIs. For details, see [Calling APIs](#).

Involved APIs

- **Obtaining a User Token Through Password Authentication:** This API is used to obtain the user token for authentication.
- **Registering a Source Server with SMS:** This API is used to register a source server with SMS.
- **Creating a Migration Task:** This API is used to create a migration task using the source and destination AKs and SKs.
- **Querying Details About a Migration Task:** This API is used to query the details of a migration task based on the task ID to check whether the migration task is successfully started.

Prerequisites

- You have obtained the AK/SK for accessing the destination platform..

Procedure

Step 1 Obtain the token of the IAM user.

- API
URI format: POST /v3/auth/tokens
For details, see [Obtaining a User Token Through Password Authentication](#).
- Example request
POST: `https://{iam_endpoint}/v3/auth/tokens`
Obtain *{endpoint}* from Regions and Endpoints.
Body:

```
{
  "auth": {
    "identity": {
      "methods": [
        "password"
      ],
      "password": {
        "user": {
          "name": "username",
          "domain": {
            "name": "domainname"
          },
          "password": "*****"
        }
      }
    },
    "scope": {
      "project": {
        "id": "0215ef11e49d4743be23dd97a1561xxx"
      }
    }
  }
}
```

In the response header, the value of **X-Subject-Token** is the token.

X-Subject-Token:MIIDkgYJKoZIhvcNAQcCoIIDgzCCA38CAQExDTALBglghkgBZQMEAgEwgXXXXX...

Step 2 Report the source server information and register the source server.

- API

URI format:

POST /v3/sources

For details, see [Registering a Source Server with SMS](#).

- Example request

POST https://sms.myhuaweicloud.eu/v3/sources

Header:

Content-Type: application/json
X-Auth-Token: "Token"

Body:

```
{
  "os_type": "LINUX",
  "name": "bike-centos",
  "os_version": "CENTOS_7_4_64BIT",
  "linux_block_check": "{\"release_type\": \"CENTOS\", \"release_version\": \"7.4.1708\", \"kernel_simplification\": \"3.10.0\", \"architecture\": \"x86_64\", \"kernel_version\": \"3.10.0-1062.1.1.el7.x86_64\"}",
  "kernel_version": "3.10.0-1062.1.1.el7.x86_64",
  "virtualization_type": "HVM",
  "paravirtualization": true,
  "firmware": "BIOS",
  "has_rsync": true,
  "boot_loader": "GRUB",
  "disks": [{
    "name": "/dev/vda",
    "size": 42949672960,
    "device_use": "BOOT",
    "partition_style": "MBR",
    "physical_volumes": [{
      "name": "/dev/vda1",
      "size": 42948624384,
      "device_use": "OS",
      "used_size": 2854862848,
      "inode_size": "256",
      "file_system": "ext4",
```

```

        "mount_point": "/"
      }
    }],
    "volume_groups": [],
    "cpu_quantity": 1,
    "memory": 1038716928,
    "networks": [{
      "name": "eth0",
      "ip": "192.168.77.77",
      "mac": "ef05f3911eecb12a0a8931dc198af84e848b0e9e3edd0812805429fc649xxxx"
    }],
    "ip": "192.168.77.77",
    "agent_version": "1.2.3-beta"
  }
}

```

- Example response

```

{
  "id": "33b798a8-4f80-49ce-8b8a-18a85adfe13e"
}

```

Step 3 Create a migration task for the source server.

- API

URI format:

POST /v3/tasks

For details, see [Creating a Migration Task](#).

- Example request

POST https://sms.myhuaweicloud.eu/v3/tasks

Header:

Content-Type: application/json
X-Auth-Token: "Token"

Body:

```

{
  "auto_install_pvdriver": true,
  "auto_start": true,
  "syncing": false,
  "migration_ip": "172.16.0.xxx",
  "name": "MigrationTask",
  "os_type": "WINDOWS",
  "project_id": "05825205120026802xxxx01721bc1xxx",
  "project_name": "project_name",
  "region_id": "region_id",
  "region_name": "region_name",
  "source_server": {
    "id": "9a01cb97-3eec-440e-xxxx-04016a8d7502"
  },
  "start_target_server": true,
  "target_server": {
    "name": "name",
    "vm_id": "6dac09d8-5835-4888-xxxx-787453c4e1d4",
    "disks": [{
      "device_use": "OS",
      "disk_id": "354419d9-bd41-4b50-xxxx-e4f6f57c6xxx",
      "name": "Disk 0",
      "physical_volumes": [{
        "device_use": "BOOT",
        "file_system": "NTFS",
        "index": 1,
        "name": "(Reserved)",
        "size": 367001600,
        "used_size": 31244288,
        "uuid": "\\|\\|\\|?\\|\\|Volume{b99b1c6f-75ef-xxxx-80b3-806e6f6e6963}\\|\\|"
      }], {
        "device_use": "OS",
        "file_system": "NTFS",

```

```

        "index" : 2,
        "name" : "C:\\",
        "size" : 42580574208,
        "used_size" : 16148279296,
        "uuid" : "\\?\\Volume{b99b1c70-75ef-xxxx-80b3-806e6f6e6963}\\\"
    }
  ],
  "size" : 42949672960,
  "used_size" : 42949672960
}, {
  "device_use" : "NORMAL",
  "disk_id" : "ef409e5f-2321-49d1-xxxx-027fc93985ef",
  "name" : "Disk 1",
  "physical_volumes" : [{
    "file_system" : "NTFS",
    "index" : 1,
    "name" : "D:\\",
    "size" : 53684994048,
    "used_size" : 3462647808,
    "uuid" : "\\?\\Volume{9f817be3-2cea-xxxx-816f-e995816380e2}\\\"
  }
  ],
  "size" : 53687091200,
  "used_size" : 53687091200
}
],
"btrfs_list" : null
},
"type" : "MIGRATE_BLOCK",
"use_public_ip" : false
}

```

- Example response

```

{
  "id": "8abda8635e09d185015e09d188dd0001xx"
}

```

Step 4 View the migration task status.

- API

URI format:

```
GET /v3/tasks/{task_id}
```

For details, see "Querying a Migration Task by Task ID."

- Example request

```
GET https://sms.myhuaweicloud.eu/v3/tasks/8abda8635e09d185015e09d188dd0001xx
```

Header:

```
Content-Type: application/json
X-Auth-Token: "Token"
```

- Example response

```

{
  "id": "8abda8635e09d185015e09d188dd0001xx",
  "name": "MigrationTask",
  "type": "MIGRATE_FILE",
  "os_type": "LINUX",
  "state": "READY",
  "estimate_complete_time": 1600391014000,
  "create_date": 1600159831000,
  "start_date": 1600159831000,
  "finish_date": 1600343128000,
  "priority": 1,
  "speed_limit": 0,
  "migrate_speed": 0,
  "start_target_server": true,
  "error_json": "",
  "total_time": 935000,
  "float_ip": "192.168.0.xxx",

```

```
"migration_ip": "192.168.0.xxx",
"vm_template_id": null,
"region_name": "region_name",
"region_id": "region_id",
"project_name": "project_name",
"project_id": "05825205120026802ff0c01721bc1xxx",
"sub_tasks": [
  {
    "id": 3514,
    "name": "SSL_CONFIG",
    "progress": 100,
    "start_date": 1600159847000,
    "end_date": 1600159851000,
    "user_op": "REPLICATE"
  },
  {
    "id": 3515,
    "name": "ATTACH_AGENT_IMAGE",
    "progress": 100,
    "start_date": 1600159851000,
    "end_date": 1600160027000,
    "user_op": "REPLICATE"
  },
  {
    "id": 3516,
    "name": "FORMAT_DISK_LINUX_FILE",
    "progress": 100,
    "start_date": 1600160027000,
    "end_date": 1600160030000,
    "user_op": "REPLICATE"
  },
  {
    "id": 3517,
    "name": "MIGRATE_LINUX_FILE",
    "progress": 100,
    "start_date": 1600160080000,
    "end_date": 1600160088000,
    "user_op": "REPLICATE"
  },
  {
    "id": 3582,
    "name": "CONFIGURE_LINUX_FILE",
    "progress": 100,
    "start_date": 1600333914000,
    "end_date": 1600334025000,
    "user_op": "CUTOVER0"
  },
  {
    "id": 3583,
    "name": "DETTACH_AGENT_IMAGE",
    "progress": 100,
    "start_date": 1600334029000,
    "end_date": 1600334103000,
    "user_op": "CUTOVER0"
  },
  {
    "id": 3584,
    "name": "SSL_CONFIG",
    "progress": 100,
    "start_date": 1600334185000,
    "end_date": 1600334188000,
    "user_op": "RESYNCO"
  },
  {
    "id": 3585,
    "name": "ATTACH_AGENT_IMAGE",
    "progress": 100,
    "start_date": 1600334189000,
    "end_date": 1600334375000,
```

```

"user_op": "RESYNC0"
},
{
  "id": 3586,
  "name": "SYNC_LINUX_FILE",
  "progress": 100,
  "start_date": 1600334375000,
  "end_date": 1600334376000,
  "user_op": "RESYNC0"
},
{
  "id": 3587,
  "name": "CONFIGURE_LINUX_FILE",
  "progress": 100,
  "start_date": 1600342952000,
  "end_date": 1600343052000,
  "user_op": "CUTOVER1"
},
{
  "id": 3588,
  "name": "DETACH_AGENT_IMAGE",
  "progress": 100,
  "start_date": 1600343056000,
  "end_date": 1600343128000,
  "user_op": "CUTOVER1"
},
{
  "id": 3589,
  "name": "SSL_CONFIG",
  "progress": 100,
  "start_date": 1600390756000,
  "end_date": 1600390760000,
  "user_op": "RESYNC1"
},
{
  "id": 3590,
  "name": "ATTACH_AGENT_IMAGE",
  "progress": 100,
  "start_date": 1600390760000,
  "end_date": 1600390953000,
  "user_op": "RESYNC1"
},
{
  "id": 3591,
  "name": "SYNC_LINUX_FILE",
  "progress": 100,
  "start_date": 1600390954000,
  "end_date": 1600390954000,
  "user_op": "RESYNC1"
}
},
"source_server": {
  "id": "621f2cb5-ba4f-4819-b00d-ee48ca2c3xxx",
  "ip": "192.168.0.176",
  "name": "ecs-4bb4",
  "os_type": "LINUX",
  "os_version": "CENTOS_7_6_64BIT",
  "oem_system": false,
  "state": "syncing",
  "migration_cycle": "syncing"
},
"target_server": {
  "id": "de35f45d-b6d5-4769-9148-984c8fab4xxx",
  "vm_id": "6d51477f-0a02-4917-8d7d-b13969f4axxx",
  "name": "ecs-4bb4",
  "ip": null,
  "os_type": "LINUX",
  "os_version": null,
  "system_dir": null,

```

```
"disks": [
  {
    "id": 86364,
    "name": "/dev/sda",
    "relation_name": "/dev/vda",
    "disk_id": "ed3c78d0-3166-48d1-bee0-d29e7d834xxx",
    "partition_style": "MBR",
    "size": 42949672960,
    "used_size": 42948624384,
    "device_use": "BOOT",
    "os_disk": false,
    "physical_volumes": [
      {
        "id": 132594,
        "uuid": null,
        "index": 0,
        "name": "/dev/sda1",
        "relation_name": "/dev/vda1",
        "device_use": "OS",
        "file_system": "ext4",
        "mount_point": "/",
        "size": 42948624384,
        "used_size": 2467393536,
        "free_size": 40481230848
      }
    ],
    "disk_index": "z"
  },
  {
    "volume_groups": [],
    "image_disk_id": "9700f5ce-02ae-4a71-a057-deffe9b69xxx",
    "rollback_snapshot_ids": null
  },
  "clone_server": null,
  "target_snapshot_id": null,
  "remain_seconds": 60000
}
```

state indicates the task execution status. **READY** indicates that the task has been created.

----End

4.2 Starting a Migration Task

Scenarios

This section describes how to start a migration task by calling APIs. For details, see [Calling APIs](#).

Before starting a migration task, you need to obtain the user token. After starting the migration task, you need to query the task status, because the task can be started when it is failed or paused.

Involved APIs

- **Obtaining a User Token Through Password Authentication:** This API is used to obtain the user token for authentication.
- **Managing Migration Tasks (Start):** This API is used to start a failed or paused migration task using the source and destination AKs and SKs.

- **Querying Details About a Migration Task:** This API is used to query the details of a migration task based on the task ID to check whether the migration task is successfully started.

Procedure

Step 1 Obtain the token of the IAM user.

- API
URI format: POST /v3/auth/tokens
For details, see [Obtaining a User Token Through Password Authentication](#).

- Example request
POST: `https://{iam_endpoint}/v3/auth/tokens`

Obtain *{endpoint}* from Regions and Endpoints.

Body:

```
{
  "auth": {
    "identity": {
      "methods": [
        "password"
      ],
      "password": {
        "user": {
          "name": "testname",
          "domain": {
            "name": "testname"
          }
        },
        "password": "Password"
      }
    }
  },
  "scope": {
    "project": {
      "id": "0215ef11e49d4743be23dd97a1561xxx"
    }
  }
}
```

In the response header, the value of **X-Subject-Token** is the token.

X-Subject-Token: `MIIDkgYJKoZIhvcNAQcCoIIDgzCCA38CAQExDTALBglghkgBZQMEAgEwgXXXXX...`

Step 2 Start the target migration task.

- API
URI format:
`POST /v3/tasks/{task_id}/action`
For details, see [Managing Migration Tasks \(Start\)](#).
- Example request
POST `https://sms.myhuaweicloud.eu/v3/tasks/8abda8635e09d185015e09d188dd0001xx/action`

Header:

```
Content-Type: application/json
X-Auth-Token: "Token"
```

Body:

```
{
  "operation": "start",
}
```

If the response code is 200, the API is successfully called.

Step 3 View the migration task status.

- API

URI format:

```
GET /v3/tasks/{task_id}
```

For details, see [Querying Details About a Migration Task](#).

- Example request

```
GET https://sms.myhuaweicloud.eu/v3/tasks/8abda8635e09d185015e09d188dd0001xx
```

Header:

```
Content-Type: application/json
X-Auth-Token: "Token"
```

- Example response

```
{
  "id": "8abda8635e09d185015e09d188dd0001xx",
  "name": "MigrationTask",
  "type": "MIGRATE_FILE",
  "os_type": "LINUX",
  "state": "RUNNING",
  "estimate_complete_time": 1600391014000,
  "create_date": 1600159831000,
  "start_date": 1600159831000,
  "finish_date": 1600343128000,
  "priority": 1,
  "speed_limit": 0,
  "migrate_speed": 0,
  "start_target_server": true,
  "error_json": "",
  "total_time": 935000,
  "float_ip": "192.168.0.xxx",
  "migration_ip": "192.168.0.xxx",
  "vm_template_id": null,
  "region_name": "region_name",
  "region_id": "region_id",
  "project_name": "project_name",
  "project_id": "05825205120026802ff0c01721bc1xxx",
  "sub_tasks": [
    {
      "id": 3514,
      "name": "SSL_CONFIG",
      "progress": 100,
      "start_date": 1600159847000,
      "end_date": 1600159851000,
      "user_op": "REPLICATE"
    },
    {
      "id": 3515,
      "name": "ATTACH_AGENT_IMAGE",
      "progress": 100,
      "start_date": 1600159851000,
      "end_date": 1600160027000,
      "user_op": "REPLICATE"
    },
    {
      "id": 3516,
      "name": "FORMAT_DISK_LINUX_FILE",
      "progress": 100,
      "start_date": 1600160027000,
      "end_date": 1600160030000,
      "user_op": "REPLICATE"
    },
    {
      "id": 3517,
      "name": "MIGRATE_LINUX_FILE",
      "progress": 100,
      "start_date": 1600160080000,

```

```

"end_date": 1600160088000,
"user_op": "REPLICATE"
},
{
  "id": 3582,
  "name": "CONFIGURE_LINUX_FILE",
  "progress": 100,
  "start_date": 1600333914000,
  "end_date": 1600334025000,
  "user_op": "CUTOVER0"
},
{
  "id": 3583,
  "name": "DETACH_AGENT_IMAGE",
  "progress": 100,
  "start_date": 1600334029000,
  "end_date": 1600334103000,
  "user_op": "CUTOVER0"
},
{
  "id": 3584,
  "name": "SSL_CONFIG",
  "progress": 100,
  "start_date": 1600334185000,
  "end_date": 1600334188000,
  "user_op": "RESYNCO"
},
{
  "id": 3585,
  "name": "ATTACH_AGENT_IMAGE",
  "progress": 100,
  "start_date": 1600334189000,
  "end_date": 1600334375000,
  "user_op": "RESYNCO"
},
{
  "id": 3586,
  "name": "SYNC_LINUX_FILE",
  "progress": 100,
  "start_date": 1600334375000,
  "end_date": 1600334376000,
  "user_op": "RESYNCO"
},
{
  "id": 3587,
  "name": "CONFIGURE_LINUX_FILE",
  "progress": 100,
  "start_date": 1600342952000,
  "end_date": 1600343052000,
  "user_op": "CUTOVER1"
},
{
  "id": 3588,
  "name": "DETACH_AGENT_IMAGE",
  "progress": 100,
  "start_date": 1600343056000,
  "end_date": 1600343128000,
  "user_op": "CUTOVER1"
},
{
  "id": 3589,
  "name": "SSL_CONFIG",
  "progress": 100,
  "start_date": 1600390756000,
  "end_date": 1600390760000,
  "user_op": "RESYNC1"
},
{
  "id": 3590,

```

```

"name": "ATTACH_AGENT_IMAGE",
"progress": 100,
"start_date": 1600390760000,
"end_date": 1600390953000,
"user_op": "RESYNC1"
},
{
  "id": 3591,
  "name": "SYNC_LINUX_FILE",
  "progress": 100,
  "start_date": 1600390954000,
  "end_date": 1600390954000,
  "user_op": "RESYNC1"
}
],
"source_server": {
  "id": "621f2cb5-ba4f-4819-b00d-ee48ca2c3xxx",
  "ip": "192.168.0.xxx",
  "name": "ecs-4bb4",
  "os_type": "LINUX",
  "os_version": "CENTOS_7_6_64BIT",
  "oem_system": false,
  "state": "syncing",
  "migration_cycle": "syncing"
},
"target_server": {
  "id": "de35f45d-b6d5-4769-9148-984c8fab4xxx",
  "vm_id": "6d51477f-0a02-4917-8d7d-b13969f4axxx",
  "name": "ecs-4bb4",
  "ip": null,
  "os_type": "LINUX",
  "os_version": null,
  "system_dir": null,
  "disks": [
    {
      "id": 86364,
      "name": "/dev/sda",
      "relation_name": "/dev/vda",
      "disk_id": "ed3c78d0-3166-48d1-bee0-d29e7d834xxx",
      "partition_style": "MBR",
      "size": 42949672960,
      "used_size": 42948624384,
      "device_use": "BOOT",
      "os_disk": false,
      "physical_volumes": [
        {
          "id": 132594,
          "uuid": null,
          "index": 0,
          "name": "/dev/sda1",
          "relation_name": "/dev/vda1",
          "device_use": "OS",
          "file_system": "ext4",
          "mount_point": "/",
          "size": 42948624384,
          "used_size": 2467393536,
          "free_size": 40481230848
        }
      ]
    },
    {
      "disk_index": "z"
    }
  ]
},
"volume_groups": [],
"image_disk_id": "9700f5ce-02ae-4a71-a057-deffe9b69xxx",
"rollback_snapshot_ids": null
},
"clone_server": null,
"target_snapshot_id": null,

```

```
"remain_seconds": 60000
}
```

state indicates the task execution status. **RUNNING** indicates that the task is being executed, and **MIGRATE_SUCCESS5** indicates that the task has been executed successfully.

----End

4.3 Pausing and Deleting a Migration Task

Scenarios

This section describes how to pause and delete a migration task by calling APIs. For details, see [Calling APIs](#).

Before deleting a migration task, you need to obtain the user token. After pausing the migration task, you need to query the task status. The migration task can be deleted only after it is paused.

Involved APIs

- **Obtaining a User Token Through Password Authentication:** This API is used to obtain the user token for authentication.
- **Managing Migration Tasks (Pause):** This API is used to pause a migration task with a specified ID.
- **Querying Details About a Migration Task:** This API is used to query the details of a migration task with a specified ID to check whether the migration task is successfully paused.
- **Deleting a Migration Task:** This API is used to delete a migration task with a specified ID.

Procedure

Step 1 Obtain the token of the IAM user.

- API
URI format: POST /v3/auth/tokens
For details, see [Obtaining a User Token Through Password Authentication](#).

- Example request
POST: `https://{iam_endpoint}/v3/auth/tokens`

Obtain *{endpoint}* from Regions and Endpoints.

Body:

```
{
  "auth": {
    "identity": {
      "methods": [
        "password"
      ],
      "password": {
        "user": {
          "name": "testname",
          "domain": {
            "name": "testname"
          }
        }
      }
    }
  }
}
```

```

        "password": "Password"
      }
    },
    "scope": {
      "project": {
        "id": "0215ef11e49d4743be23dd97a1561xxx"
      }
    }
  }
}

```

In the response header, the value of **X-Subject-Token** is the token.

X-Subject-Token: MIIDkgYJKoZIhvcNAQcCollDgzCCA38CAQExDTALBglghkgBZQMEAgEwgXXXXX...

Step 2 Make a call to the API for pausing a migration task to pause a migration task.

- API

URI format:

POST /v3/tasks/{task_id}/action

For details, see [Managing Migration Tasks \(Pause\)](#).

- Example request

POST https://sms.myhuaweicloud.eu/v3/tasks/8abda8635e09d185015e09d188dd0001xx/action

Header:

Content-Type: application/json

X-Auth-Token: "Token"

Body:

```

{
  "operation": "stop"
}

```

If the response code is 200, the API is successfully called.

Step 3 View the migration task status.

- API

URI format:

GET /v3/tasks/{task_id}

For details, see [Querying Details About a Migration Task](#).

- Example request

GET https://sms.myhuaweicloud.eu/v3/tasks/8abda8635e09d185015e09d188dd0001xx

Header:

Content-Type: application/json

X-Auth-Token: "Token"

- Example response

```

{
  "id": "8abda8635e09d185015e09d188dd0001xx",
  "name": "MigrationTask",
  "type": "MIGRATE_FILE",
  "os_type": "LINUX",
  "state": "ABORT",
  "estimate_complete_time": 1600391014000,
  "create_date": 1600159831000,
  "start_date": 1600159831000,
  "finish_date": 1600343128000,
  "priority": 1,
  "speed_limit": 0,
  "migrate_speed": 0,
  "start_target_server": true,
  "error_json": ""
}

```

```

"total_time": 935000,
"float_ip": "192.168.0.xxx",
"migration_ip": "192.168.0.xxx",
"vm_template_id": null,
"region_name": "region_name",
"region_id": "region_id",
"project_name": ""project_name",
"project_id": "05825205120026802ff0c01721bc1xxx",
"sub_tasks": [
  {
    "id": 3514,
    "name": "SSL_CONFIG",
    "progress": 100,
    "start_date": 1600159847000,
    "end_date": 1600159851000,
    "user_op": "REPLICATE"
  },
  {
    "id": 3515,
    "name": "ATTACH_AGENT_IMAGE",
    "progress": 100,
    "start_date": 1600159851000,
    "end_date": 1600160027000,
    "user_op": "REPLICATE"
  },
  {
    "id": 3516,
    "name": "FORMAT_DISK_LINUX_FILE",
    "progress": 100,
    "start_date": 1600160027000,
    "end_date": 1600160030000,
    "user_op": "REPLICATE"
  },
  {
    "id": 3517,
    "name": "MIGRATE_LINUX_FILE",
    "progress": 100,
    "start_date": 1600160080000,
    "end_date": 1600160088000,
    "user_op": "REPLICATE"
  },
  {
    "id": 3582,
    "name": "CONFIGURE_LINUX_FILE",
    "progress": 100,
    "start_date": 1600333914000,
    "end_date": 1600334025000,
    "user_op": "CUTOVER0"
  },
  {
    "id": 3583,
    "name": "DETTACH_AGENT_IMAGE",
    "progress": 100,
    "start_date": 1600334029000,
    "end_date": 1600334103000,
    "user_op": "CUTOVER0"
  },
  {
    "id": 3584,
    "name": "SSL_CONFIG",
    "progress": 100,
    "start_date": 1600334185000,
    "end_date": 1600334188000,
    "user_op": "RESYNCO"
  },
  {
    "id": 3585,
    "name": "ATTACH_AGENT_IMAGE",
    "progress": 100,

```

```

"start_date": 1600334189000,
"end_date": 1600334375000,
"user_op": "RESYNC0"
},
{
  "id": 3586,
  "name": "SYNC_LINUX_FILE",
  "progress": 100,
  "start_date": 1600334375000,
  "end_date": 1600334376000,
  "user_op": "RESYNC0"
},
{
  "id": 3587,
  "name": "CONFIGURE_LINUX_FILE",
  "progress": 100,
  "start_date": 1600342952000,
  "end_date": 1600343052000,
  "user_op": "CUTOVER1"
},
{
  "id": 3588,
  "name": "DETACH_AGENT_IMAGE",
  "progress": 100,
  "start_date": 1600343056000,
  "end_date": 1600343128000,
  "user_op": "CUTOVER1"
},
{
  "id": 3589,
  "name": "SSL_CONFIG",
  "progress": 100,
  "start_date": 1600390756000,
  "end_date": 1600390760000,
  "user_op": "RESYNC1"
},
{
  "id": 3590,
  "name": "ATTACH_AGENT_IMAGE",
  "progress": 100,
  "start_date": 1600390760000,
  "end_date": 1600390953000,
  "user_op": "RESYNC1"
},
{
  "id": 3591,
  "name": "SYNC_LINUX_FILE",
  "progress": 100,
  "start_date": 1600390954000,
  "end_date": 1600390954000,
  "user_op": "RESYNC1"
}
},
"source_server": {
  "id": "621f2cb5-ba4f-4819-b00d-ee48ca2c35ea",
  "ip": "192.168.0.176",
  "name": "ecs-4bb4",
  "os_type": "LINUX",
  "os_version": "CENTOS_7_6_64BIT",
  "oem_system": false,
  "state": "syncing",
  "migration_cycle": "syncing"
},
"target_server": {
  "id": "de35f45d-b6d5-4769-9148-984c8fab4xxx",
  "vm_id": "6d51477f-0a02-4917-8d7d-b13969f4axxx",
  "name": "ecs-4bb4",
  "ip": null,
  "os_type": "LINUX",

```



```
"os_version": null,
"system_dir": null,
"disks": [
  {
    "id": 86364,
    "name": "/dev/sda",
    "relation_name": "/dev/vda",
    "disk_id": "ed3c78d0-3166-48d1-bee0-d29e7d834xxx",
    "partition_style": "MBR",
    "size": 42949672960,
    "used_size": 42948624384,
    "device_use": "BOOT",
    "os_disk": false,
    "physical_volumes": [
      {
        "id": 132594,
        "uuid": null,
        "index": 0,
        "name": "/dev/sda1",
        "relation_name": "/dev/vda1",
        "device_use": "OS",
        "file_system": "ext4",
        "mount_point": "/",
        "size": 42948624384,
        "used_size": 2467393536,
        "free_size": 40481230848
      }
    ],
    "disk_index": "z"
  }
],
"volume_groups": [],
"image_disk_id": "9700f5ce-02ae-4a71-a057-deffe9b69xxx",
"rollback_snapshot_ids": null
},
"clone_server": null,
"target_snapshot_id": null,
"remain_seconds": 60000
}
```

state indicates the task execution status. **ABORT** indicates that the task has been paused.

Step 4 Make a call to the API for deleting a migration task to delete the migration task.

- API

URI format:

```
DELETE /v3/tasks/{task_id}
```

For details, see [Deleting a Migration Task](#).

- Example request

```
https://sms.myhuaweicloud.eu/v3/tasks/8abda8635e09d185015e09d188dd0001xx
```

Header:

```
Content-Type: application/json
X-Auth-Token: "Token"
```

If the response code is 200, the migration task has been deleted successfully.

----**End**

5 APIs V3.0

5.1 API Version Query

5.1.1 Listing API Versions

Function

This API is used to list all SMS API versions.

Calling Method

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

URI

GET /

Request

Table 5-1 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| X-Auth-Token | Yes | String | The user token. The token can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token. Minimum length: 1 character Maximum length: 16,384 characters |

Response

Status code: 200

Table 5-2 Response body parameters

| Parameter | Type | Description |
|-----------|---------------------------------|---|
| versions | Array of Version objects | Lists all API versions of SMS. Array length: 0 to 1,024 characters |

Table 5-3 Version

| Parameter | Type | Description |
|-----------|------------------------------|---|
| id | String | The API version. Minimum length: 0 characters Maximum length: 255 characters |
| links | Array of Link objects | The API link address. Array length: 0 to 1,024 characters |
| status | String | The version status. SUPPORTED indicates the version is supported. Minimum length: 0 characters Maximum length: 255 characters |
| updated | String | The time when the version is updated. The format is yyyy-mm-ddThh:mm:ssZ. T is the separator between the calendar and the hourly notation of time. Z indicates the UTC. Example: 2018-09-30T00:00:00Z Minimum length: 0 characters Maximum length: 255 characters |

Table 5-4 Link field description

| Parameter | Type | Description |
|-----------|--------|---|
| href | String | The URL of the API version. Minimum length: 0 characters Maximum length: 1,024 characters |

| Parameter | Type | Description |
|-----------|--------|---|
| rel | String | Its value is self , indicating that href is a local link. Minimum length: 0 characters Maximum length: 1,024 characters |

Example Request

This example queries the list of supported API versions.

```
GET https://{endpoint}/
{
  "versions": [ {
    "links": [ {
      "rel": "self",
      "href": "https://sms.ap-southeast-1.myhuaweicloud.com/"
    } ],
    "id": "v3",
    "updated": "2020-09-02T17:50:00Z",
    "status": "SUPPORTED"
  } ]
}
```

Example Response

Status code: 200

OK

```
{
  "versions": [ {
    "links": [ {
      "rel": "self",
      "href": "https://sms.ap-southeast-1.myhuaweicloud.com/"
    } ],
    "id": "v3",
    "updated": "2020-09-02T17:50:00Z",
    "status": "SUPPORTED"
  } ]
}
```

Status Codes

| Status Code | Description |
|-------------|--------------------|
| 200 | Response returned. |

Error Codes

For details, see [Error Codes](#).

5.1.2 Querying an API Version

Function

This API is used to query a specified API version of SMS.

Calling Method

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

URI

GET /{version}

Table 5-5 Path parameter

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| version | Yes | String | The version information. Minimum length: 1 character Maximum length: 10 characters |

Request

None

Response

Status code: 200

Table 5-6 Response body parameters

| Parameter | Type | Description |
|-----------|---------------------------------------|--|
| id | String | The API version. Minimum length: 0 characters Maximum length: 255 characters |
| links | Array of Link objects | The API link address. Array length: 0 to 1,024 characters |
| status | String | The version status. SUPPORTED indicates the version is supported. Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Type | Description |
|-----------|--------|---|
| updated | String | The time when the version is updated. The format is yyyy-mm-ddThh:mm:ssZ. T is the separator between the calendar and the hourly notation of time. Z indicates the UTC. Example: 2018-09-30T00:00:00Z Minimum length: 0 characters Maximum length: 255 characters |

Table 5-7 Link field description

| Parameter | Type | Description |
|-----------|--------|---|
| href | String | The URL of the API version. Minimum length: 0 characters Maximum length: 1,024 characters |
| rel | String | Its value is self , indicating that href is a local link. Minimum length: 0 characters Maximum length: 1,024 characters |

Example Request

This example queries a specified SMS API version.

```
GET https://{endpoint}/v3
{
  "links" : [ {
    "rel" : "self",
    "href" : "https://sms.ap-southeast-1.myhuaweicloud.com/v3"
  } ],
  "id" : "v3",
  "updated" : "2020-09-02T17:50:00Z",
  "status" : "SUPPORTED"
}
```

Example Response

Status code: 200

OK

```
{
  "links" : [ {
    "rel" : "self",
    "href" : "https://sms.ap-southeast-1.myhuaweicloud.com/v3"
  } ],
  "id" : "v3",
  "updated" : "2020-09-02T17:50:00Z",
  "status" : "SUPPORTED"
}
```

Status Codes

| Status Code | Description |
|-------------|--------------------|
| 200 | Response returned. |

Error Codes

For details, see [Error Codes](#).

5.2 Agent Running

5.2.1 Obtaining the Agent Configuration Information

Function

After the Agent installed on a source server is started, it calls this API to obtain configuration information.

Calling Method

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

URI

GET /v3/config

Request

Table 5-8 Request header parameter

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| X-Auth-Token | Yes | String | <p>The user token.</p> <p>The token can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.</p> <p>Minimum length: 1 character Maximum length: 16,384 characters</p> |

Response

Status code: 200

Table 5-9 Response body parameters

| Parameter | Type | Description |
|-----------|-----------------------------|---|
| config | Map<String,String> | mainRegion, obs_domain, disktype, process_and_it, and information to be added later |
| regions | Array of RegionInfo objects | The Region array. Array length: 1 - 100 characters |

Status code: 400

Table 5-10 Response body parameters

| Parameter | Type | Description |
|------------|--------|--|
| error_code | String | The error code. Minimum length: 0 characters Maximum length: 255 characters |
| error_msg | String | The error message. Minimum length: 0 characters Maximum length: 1,024 characters |

Example Request

This example obtains the Agent configuration information under the current endpoint.

```
GET https://{endpoint}/v3/config
```

Example Response

Status code: 200

The configuration information obtained.

```
{
  "config" : {
    "mainRegion" : "ap-southeast-1",
    "disktype" : "SATA"
  },
  "regions" : [ {
    "region_name" : "cn-north-1",
    "project_name" : "cn-north-1"
  }, {
    "region_name" : "cn-north-4",
```



```
"project_name": "cn-north-4"  
  } ]  
}
```

Status Codes

| Status Code | Description |
|-------------|---|
| 200 | The configuration information obtained. |
| 400 | Obtaining the configuration information failed. |

Error Codes

For details, see [Error Codes](#).

5.3 Source Server Management

5.3.1 Listing Failed Source Servers

Function

This API is used to query the list of source servers that failed to be migrated and the error messages.

Calling Method

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

URI

GET /v3/errors

Table 5-11 Query parameters

| Parameter | Mandatory | Type | Description |
|-----------|-----------|---------|--|
| limit | No | Integer | The number of failed source servers recorded on each page. Minimum value: 0 Maximum value: 100 Default value: 50 |
| offset | Yes | Integer | The offset. Minimum value: 0 Maximum value: 65535 Default value: 0 |

| Parameter | Mandatory | Type | Description |
|-----------------------|-----------|--------|--|
| migproject | No | String | The ID of the migration project in which the failed source servers will be queried. If this parameter is specified, only the failed source servers in migration tasks under the project are queried. Minimum length: 0 characters Maximum length: 255 characters |
| enterprise_project_id | No | String | The ID of the enterprise project to be queried. Minimum length: 0 characters Maximum length: 255 characters |

Request

Table 5-12 Request header parameter

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| X-Auth-Token | Yes | String | The user token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header). Minimum length: 1 character Maximum length: 16,384 characters |

Response

Status code: 200

Table 5-13 Response body parameters

| Parameter | Type | Description |
|-----------|---------|---|
| count | Integer | The number of source servers that failed to be migrated due to errors. Minimum value: 0 Maximum value: 2147483647 |

| Parameter | Type | Description |
|------------------|---|---|
| migration_errors | Array of MigrationErrors objects | The details of the failed source servers. Array length: 0 to 65,535 characters |

Table 5-14 MigrationErrors field description

| Parameter | Type | Description |
|------------|--------|---|
| error_json | String | The error message in JSON format. Minimum length: 0 characters Maximum length: 255 characters |
| host_name | String | The hostname of the source server, which is obtained from the user system and may be empty. Minimum length: 0 characters Maximum length: 255 characters |
| name | String | The source server name defined on the SMS console. Minimum length: 0 characters Maximum length: 255 characters |
| source_id | String | The source server ID. Minimum length: 0 characters Maximum length: 255 characters |
| source_ip | String | The IP address of the source server. Minimum length: 0 characters Maximum length: 255 characters |
| target_ip | String | The IP address of the target server. Minimum length: 0 characters Maximum length: 255 characters |

Example Request

This example lists all failed source servers with 10 records on one page and navigates to page 0.

```
GET https://{endpoint}/v3/errors?limit=10&offset=0
```

Example Response

Status code: 200

OK

```
{
  "count" : 4,
  "migration_errors" : [ {
    "source_id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "source_ip" : "192.168.0.235",
    "target_ip" : null,
    "name" : "sms-ubuntu",
    "host_name" : null,
    "error_json" : "{\"error_code\":\"SMS.1302\", \"error_param\":\"[\\\"/mnt/vdb1\\\"]\"}"
  }, {
    "source_id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "source_ip" : "192.168.0.163",
    "target_ip" : null,
    "name" : "sms-win08",
    "host_name" : "sms-win08",
    "error_json" : "{\"error_param\":\"[\\\"192.168.0.1\\\"]\", \"error_code\":\"SMS.2802\"}"
  }, {
    "source_id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "source_ip" : "192.168.0.154",
    "target_ip" : null,
    "name" : "sms-win16",
    "host_name" : "sms-win16",
    "error_json" : "{\"error_code\":\"SMS.1114\", \"error_param\":\"[]\"}"
  }, {
    "source_id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "source_ip" : "192.168.77.77",
    "target_ip" : null,
    "name" : "sms-centos",
    "host_name" : null,
    "error_json" : "{\"error_code\":\"SMS.3805\", \"error_param\":\"[]\"}"
  }
  ]
}
```

Status Codes

| Status Code | Description |
|-------------|--------------------|
| 200 | Response returned. |

Error Codes

For details, see [Error Codes](#).

5.3.2 Registering a Source Server with SMS

Function

This API is automatically called by the Agent to report the basic information about the source server to SMS. After the source server is registered successfully, you can view the source server information on the SMS console.

Calling Method

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

URI

POST /v3/sources

Request

Table 5-15 Request header parameter

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| X-Auth-Token | Yes | String | The user token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header). Minimum length: 1 character Maximum length: 16,384 characters |

Table 5-16 Request body parameters

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| id | No | String | The ID of the source server in the SMS database. Minimum length: 0 characters Maximum length: 255 characters |
| ip | No | String | The IP address of the source server. This parameter is mandatory for registering the source server with SMS and optional for updating the information about the source server. Minimum length: 0 characters Maximum length: 255 characters |
| name | No | String | The name of the source server displayed on the SMS console. Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Mandatory | Type | Description |
|---------------------|-----------|--------|---|
| hostname | No | String | The hostname of the source server. This parameter is mandatory for registering the source server with SMS and optional for updating the information about the source server. Minimum length: 0 characters Maximum length: 255 characters |
| os_type | No | String | The OS type of the source server. This parameter is mandatory for registering the source server with SMS and optional for updating the information about the source server. Minimum length: 0 characters Maximum length: 255 characters The value can be: <ul style="list-style-type: none"> • WINDOWS • LINUX |
| os_version | No | String | The OS version. This parameter is mandatory for registration and optional for update. Minimum length: 0 characters Maximum length: 255 characters |
| virtualization_type | No | String | The OS virtualization type. Minimum length: 0 characters Maximum length: 255 characters |
| linux_block_check | No | String | The Linux block-level check. Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--|---|
| firmware | No | String | The boot mode. Minimum length: 0 characters Maximum length: 255 characters The value can be: <ul style="list-style-type: none"> • BIOS • UEFI |
| cpu_quantity | No | Integer | The number of CPUs. Minimum value: 0 Maximum value: 65535 |
| memory | No | Long | The memory size (MB). Minimum value: 0 Maximum value: 9223372036854775807 |
| disks | No | Array of ServerDisk objects | The disk information of the source server. Array length: 0 to 65,535 characters |
| btrfs_list | No | Array of BtrfsFileSystem objects | The Btrfs information on the source server. This parameter is mandatory for Linux. If there are no Btrfs file systems on the source server, the value is an empty array []. Array length: 0 to 65,535 characters |
| networks | No | Array of NetWork objects | The NIC information of the source server. Array length: 0 to 65,535 characters |
| domain_id | No | String | The domain ID of a tenant. Minimum length: 0 characters Maximum length: 255 characters |
| has_rsync | No | Boolean | Specifies whether rsync is installed. This parameter is mandatory for Linux. |

| Parameter | Mandatory | Type | Description |
|--------------------|-----------|--------------------------------------|--|
| paravirtualization | No | Boolean | Specifies whether the source server is paravirtualized. This parameter is mandatory for Linux. |
| raw_devices | No | String | The list of raw devices. This parameter is mandatory for Linux. Minimum length: 0 characters Maximum length: 255 characters |
| driver_files | No | Boolean | Specifies whether any driver files are missing. This parameter is mandatory for Windows. |
| system_services | No | Boolean | Specifies whether there are abnormal services. This parameter is mandatory for Windows. |
| account_rights | No | Boolean | Specifies whether the account has the required permissions. This parameter is mandatory for Windows. |
| boot_loader | No | String | The system boot loader. This parameter is mandatory for Linux. The value can be: <ul style="list-style-type: none"> • GRUB • LILO |
| system_dir | No | String | The system directory. This parameter is mandatory for Windows. Minimum length: 0 characters Maximum length: 255 characters |
| volume_groups | No | Array of VolumeGroups objects | This parameter is mandatory for Linux. If there are no volume groups, the value is an empty array []. Array length: 0 to 65,535 characters |

| Parameter | Mandatory | Type | Description |
|-----------------|-----------|---------|--|
| agent_version | No | String | The Agent version. Minimum length: 0 characters Maximum length: 255 characters |
| kernel_version | No | String | The Kernel version. Minimum length: 0 characters Maximum length: 255 characters |
| migration_cycle | No | String | The current migration stage of the source server. The value can be: <ul style="list-style-type: none"> • cutovering • cutovered • checking • setting • replicating • syncing |
| state | No | String | The source server status. Minimum length: 0 characters Maximum length: 255 characters The value can be: <ul style="list-style-type: none"> • unavailable • waiting • initialize • replicate • syncing • stopping • stopped • deleting • error • cloning • cutovering • finished |
| oem_system | No | Boolean | Whether the OS is an OEM version (Windows). |

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| start_type | No | String | The startup mode. The value can be MANUAL , MGC , or an empty string (""). The value can be: <ul style="list-style-type: none"> • MANUAL • MGC |
| io_read_wait | No | Double | The disk read latency (in ms). Minimum value: 0.0 Maximum value: 10000.0 |

Table 5-17 ServerDisk

| Parameter | Mandatory | Type | Description |
|-----------------|-----------|--------|--|
| name | Yes | String | The disk name. Minimum length: 0 characters Maximum length: 255 characters |
| partition_style | No | String | The disk partition type. This parameter is mandatory for source server registration. The value can be: <ul style="list-style-type: none"> • MBR • GPT |
| device_use | Yes | String | The disk type. The value can be: <ul style="list-style-type: none"> • BOOT • OS |
| size | Yes | Long | The disk size, in bytes. Minimum value: 0 Maximum value: 9223372036854775807 |
| used_size | Yes | Long | The used disk space, in bytes. Minimum value: 0 Maximum value: 9223372036854775807 |

| Parameter | Mandatory | Type | Description |
|------------------|-----------|--|--|
| physical_volumes | Yes | Array of PhysicalVolume objects | The physical partition information of the disk. Array length: 0 to 65,535 characters |
| os_disk | No | Boolean | Specifies whether the disk is the system disk. |
| relation_name | No | String | The name of the corresponding disk on the target server running Linux. Minimum length: 0 characters Maximum length: 255 characters |
| inode_size | No | Integer | The number of inodes. Minimum value: 0 Maximum value: 2147483647 |

Table 5-18 PhysicalVolume

| Parameter | Mandatory | Type | Description |
|-------------|-----------|---------|---|
| device_use | No | String | The partition type. The value can be NORMAL , BOOT , or OS . Minimum length: 0 characters Maximum length: 255 characters |
| file_system | No | String | The file system type. Minimum length: 0 characters Maximum length: 255 characters |
| index | No | Integer | The serial number of the volume. Minimum value: 0 Maximum value: 2147483647 |
| mount_point | No | String | The mount point. Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Mandatory | Type | Description |
|------------------|-----------|---------|---|
| name | No | String | The volume name. In Windows, it indicates the drive letter, and in Linux, it indicates the device ID. Minimum length: 0 characters Maximum length: 255 characters |
| size | No | Long | The volume size. Minimum value: 0 Maximum value: 9223372036854775807 |
| used_size | No | Long | The used space. Minimum value: 0 Maximum value: 9223372036854775807 |
| inode_size | No | Integer | The number of inodes. Minimum value: 0 Maximum value: 2147483647 |
| inode_nums | No | Long | The number of inodes. Minimum value: 0 Maximum value: 9223372036854775807 |
| uuid | No | String | The GUID of the volume, which can be obtained from the source server. Minimum length: 0 characters Maximum length: 255 characters |
| size_per_cluster | No | Integer | The size of each cluster. Minimum value: 0 Maximum value: 2147483647 |

Table 5-19 BtrfsFileSystem field description

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|---|
| name | Yes | String | The file system name. Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Mandatory | Type | Description |
|------------------|-----------|---------|--|
| label | Yes | String | The file system tag. If no tag exists, the value is an empty string. Minimum length: 0 characters Maximum length: 255 characters |
| The UUID. | Yes | String | The UUID of the file system. Minimum length: 0 characters Maximum length: 255 characters |
| device | Yes | String | The device name in the Btrfs. Minimum length: 0 characters Maximum length: 255 characters |
| size | Yes | Long | The space occupied by the file system. Minimum value: 0 Maximum value: 9223372036854775807 |
| nodesize | Yes | Long | The size of the Btrfs node. Minimum value: 0 Maximum value: 9223372036854775807 |
| sectorsize | Yes | Integer | The sector size. Minimum value: 0 Maximum value: 2147483647 |
| data_profile | Yes | String | The data profile (RAD). Minimum length: 0 characters Maximum length: 255 characters |
| system_profile | Yes | String | The file system profile (RAD). Minimum length: 0 characters Maximum length: 255 characters |
| metadata_profile | Yes | String | The metadata profile (RAD). Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Mandatory | Type | Description |
|-----------------------------|-----------|--|---|
| global_reserve 1 | Yes | String | The Btrfs file system information. Minimum length: 0 characters Maximum length: 255 characters |
| g_vol_used_size | Yes | Long | The used space of the Btrfs volume. Minimum value: 0 Maximum value: 9223372036854775807 |
| default_subvol id | Yes | String | The ID of the default subvolume. Minimum length: 0 characters Maximum length: 255 characters |
| default_subvol name | Yes | String | The name of the default subvolume. Minimum length: 0 characters Maximum length: 255 characters |
| default_subvol mountpath | Yes | String | The mount path of the default subvolume or Btrfs file system. Minimum length: 0 characters Maximum length: 255 characters |
| subvolume | Yes | Array of BtrfsSubvolume objects | The subvolume information. Array length: 0 to 65,535 characters |

Table 5-20 BtrfsSubvolume field description

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| The UUID. | Yes | String | The UUID of the parent volume. Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Mandatory | Type | Description |
|-------------------|-----------|--------|--|
| is_snapshot | Yes | String | Specifies whether the subvolume is a snapshot. Minimum length: 0 characters Maximum length: 255 characters |
| subvol_id | Yes | String | The subvolume ID. Minimum length: 0 characters Maximum length: 255 characters |
| parent_id | Yes | String | The parent volume ID. Minimum length: 0 characters Maximum length: 255 characters |
| subvol_name | Yes | String | The subvolume name. Minimum length: 0 characters Maximum length: 255 characters |
| subvol_mount_path | Yes | String | The mount path of the subvolume. Minimum length: 0 characters Maximum length: 255 characters |

Table 5-21 NetWork field description

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| name | Yes | String | The NIC name. Minimum length: 0 characters Maximum length: 255 characters |
| ip | Yes | String | The IP address bound to the NIC. Minimum length: 0 characters Maximum length: 255 characters |
| netmask | Yes | String | The subnet mask. Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Mandatory | Type | Description |
|-----------|-----------|---------|--|
| gateway | Yes | String | The gateway. Minimum length: 0 characters Maximum length: 255 characters |
| mtu | No | Integer | The NIC MTU. This parameter is mandatory for Linux. Minimum value: 0 Maximum value: 2147483647 |
| mac | Yes | String | The MAC address. Minimum length: 0 characters Maximum length: 255 characters |
| id | No | String | The database ID. Minimum length: 0 characters Maximum length: 255 characters |

Table 5-22 VolumeGroups field description

| Parameter | Mandatory | Type | Description |
|-----------------|-----------|--|--|
| components | No | String | The physical volume information. Minimum length: 0 characters Maximum length: 255 characters |
| free_size | No | Long | The available space. Minimum value: 0 Maximum value: 9223372036854775807 |
| logical_volumes | No | Array of LogicalVolumes objects | The logical volume information. Array length: 0 to 255 characters |
| name | No | String | The volume group name. Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Mandatory | Type | Description |
|-----------|-----------|------|---|
| size | No | Long | The volume size. Minimum value: 0 Maximum value: 9223372036854775807 |

Table 5-23 LogicalVolumes field description

| Parameter | Mandatory | Type | Description |
|-------------|-----------|---------|---|
| block_count | No | Integer | The number of blocks. Minimum value: 0 Maximum value: 2147483647 Default: 0 |
| block_size | No | Long | The block size. Minimum value: 0 Maximum value: 1048576 Default value: 0 |
| file_system | Yes | String | The file system. Minimum length: 0 characters Maximum length: 255 characters |
| inode_size | Yes | Integer | The number of inodes. Minimum value: 0 Maximum value: 2147483647 |
| inode_nums | No | Long | The number of inodes. Minimum value: 0 Maximum value: 9223372036854775807 |
| device_use | No | String | The partition type. The value can be NORMAL , BOOT , or OS . Minimum length: 0 characters Maximum length: 255 characters |
| mount_point | Yes | String | The mount point. Minimum length: 0 characters Maximum length: 256 characters |

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| name | Yes | String | The volume group name. Minimum length: 0 characters Maximum length: 1,024 characters |
| size | Yes | Long | The volume size. Minimum value: 0 Maximum value: 9223372036854775807 |
| used_size | Yes | Long | The used space. Minimum value: 0 Maximum value: 9223372036854775807 |
| free_size | Yes | Long | The available space. Minimum value: 0 Maximum value: 9223372036854775807 |

Response

Status code: 200

Table 5-24 Response body parameters

| Parameter | Type | Description |
|-----------|--------|---|
| id | String | The source server ID. Minimum length: 0 characters Maximum length: 255 characters |

Example Request

This example reports information about a source server to SMS. The source server runs Linux SUSE12_64BIT_SP2, with the name of host-192-168-136-xxx, the IP address of 192.168.136.xxx, the BOOT system disk named /dev/vda, and the total size of the system disk of 42949672960 bytes. After the source server is reported, it will be displayed in the SMS server list.

POST https://{endpoint}/v3/sources

```
{
  "os_type": "LINUX",
  "name": "host-192-168-136-xxx",
  "os_version": "SUSE12_64BIT_SP2",
  "linux_block_check": "{\"release_type\": \"SUSE\", \"release_version\": \"12.2\", \"kernel_simplification\": \"4.4.21\", \"architecture\": \"x86_64\", \"kernel_version\": \"4.4.21-69-default\"}"
```

```

"kernel_version" : "4.4.21-69-default",
"virtualization_type" : "HVM",
"paravirtualization" : true,
"firmware" : "BIOS",
"has_rsync" : true,
"io_read_wait" : 3.4,
"boot_loader" : "GRUB",
"disks" : [ {
  "name" : "/dev/vda",
  "device_use" : "BOOT",
  "size" : 42949672960,
  "partition_style" : "MBR",
  "used_size" : 42948624384,
  "physical_volumes" : [ {
    "name" : "/dev/vda1",
    "size" : 2153775104,
    "device_use" : "NORMAL",
    "used_size" : 2153775104,
    "inode_size" : 0,
    "inode_nums" : 0,
    "file_system" : "swap",
    "mount_point" : ""
  } ], {
    "name" : "/dev/vda2",
    "size" : 16862150656,
    "device_use" : "BTRFS",
    "used_size" : 16862150656,
    "inode_size" : 0,
    "inode_nums" : 0,
    "file_system" : "btrfs",
    "mount_point" : ""
  } ], {
    "name" : "/dev/vda3",
    "size" : 23932698624,
    "device_use" : "NORMAL",
    "used_size" : 33988608,
    "inode_size" : 0,
    "inode_nums" : 12345,
    "file_system" : "xfs",
    "mount_point" : "/home"
  } ]
}, {
  "name" : "/dev/vdb",
  "device_use" : "NORMAL",
  "size" : 21474836480,
  "partition_style" : "MBR",
  "used_size" : 21473787904,
  "physical_volumes" : [ {
    "name" : "/dev/vdb1",
    "size" : 21473787904,
    "device_use" : "VOLUME_GROUP",
    "used_size" : 21473787904,
    "inode_size" : 0,
    "inode_nums" : 0,
    "file_system" : "LVM2_member",
    "mount_point" : ""
  } ]
}, {
  "name" : "/dev/vdc",
  "device_use" : "VOLUME_GROUP",
  "size" : 21474836480,
  "partition_style" : "MBR",
  "used_size" : 0,
  "physical_volumes" : [ ]
} ],
"volume_groups" : [ {
  "name" : "vg1",
  "size" : 42948624384,
  "components" : "/dev/vdb1;/dev/vdc",

```

```

"logical_volumes" : [ {
  "name" : "/dev/mapper/vg1-lv1",
  "device_use" : "NORMAL",
  "size" : 10737418240,
  "free_size" : 10713837568,
  "used_size" : 23580672,
  "file_system" : "ext4",
  "mount_point" : "/mnt/lv1",
  "inode_nums" : 12345,
  "inode_size" : "256"
} ]
}, {
"btrfs_list" : [ {
  "name" : "/dev/vda2",
  "label" : "none",
  "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "device" : "/dev/vda2",
  "size" : "3.30GiB",
  "nodesize" : "16384",
  "sectorsize" : "4096",
  "data_profile" : "single",
  "system_profile" : "single",
  "metadata_profile" : "single",
  "global_reserve1" : "single",
  "g_vol_used_size" : "3894038528",
  "default_subvolid" : "259",
  "default_subvol_name" : "@/.snapshots/1/snapshot",
  "default_subvol_mountpath" : "/",
  "subvolumn" : [ {
    "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "is_snapshot" : "false",
    "subvol_id" : "257",
    "parent_id" : "5",
    "subvol_name" : "@",
    "subvol_mount_path" : "null"
  }, {
    "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "is_snapshot" : "false",
    "subvol_id" : "258",
    "parent_id" : "257",
    "subvol_name" : "@/.snapshots",
    "subvol_mount_path" : "/.snapshots"
  }, {
    "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "is_snapshot" : "true",
    "subvol_id" : "259",
    "parent_id" : "258",
    "subvol_name" : "@/.snapshots/1/snapshot",
    "subvol_mount_path" : "/"
  }, {
    "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "is_snapshot" : "false",
    "subvol_id" : "260",
    "parent_id" : "257",
    "subvol_name" : "@/boot/grub2/i386-pc",
    "subvol_mount_path" : "/boot/grub2/i386-pc"
  }, {
    "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "is_snapshot" : "false",
    "subvol_id" : "261",
    "parent_id" : "257",
    "subvol_name" : "@/boot/grub2/x86_64-efi",
    "subvol_mount_path" : "/boot/grub2/x86_64-efi"
  }, {
    "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "is_snapshot" : "false",
    "subvol_id" : "262",
    "parent_id" : "257",
    "subvol_name" : "@/opt",

```

```

"subvol_mount_path" : "/opt"
}, {
  "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "is_snapshot" : "false",
  "subvol_id" : "263",
  "parent_id" : "257",
  "subvol_name" : "@/srv",
  "subvol_mount_path" : "/srv"
}, {
  "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "is_snapshot" : "false",
  "subvol_id" : "264",
  "parent_id" : "257",
  "subvol_name" : "@/tmp",
  "subvol_mount_path" : "/tmp"
}, {
  "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "is_snapshot" : "false",
  "subvol_id" : "265",
  "parent_id" : "257",
  "subvol_name" : "@/usr/local",
  "subvol_mount_path" : "/usr/local"
}, {
  "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "is_snapshot" : "false",
  "subvol_id" : "266",
  "parent_id" : "257",
  "subvol_name" : "@/var/cache",
  "subvol_mount_path" : "/var/cache"
}, {
  "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "is_snapshot" : "false",
  "subvol_id" : "267",
  "parent_id" : "257",
  "subvol_name" : "@/var/crash",
  "subvol_mount_path" : "/var/crash"
}, {
  "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "is_snapshot" : "false",
  "subvol_id" : "268",
  "parent_id" : "257",
  "subvol_name" : "@/var/lib/libvirt/images",
  "subvol_mount_path" : "/var/lib/libvirt/images"
}, {
  "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "is_snapshot" : "false",
  "subvol_id" : "269",
  "parent_id" : "257",
  "subvol_name" : "@/var/lib/machines",
  "subvol_mount_path" : "/var/lib/machines"
}, {
  "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "is_snapshot" : "false",
  "subvol_id" : "270",
  "parent_id" : "257",
  "subvol_name" : "@/var/lib/mailman",
  "subvol_mount_path" : "/var/lib/mailman"
}, {
  "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "is_snapshot" : "false",
  "subvol_id" : "271",
  "parent_id" : "257",
  "subvol_name" : "@/var/lib/mariadb",
  "subvol_mount_path" : "/var/lib/mariadb"
}, {
  "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "is_snapshot" : "false",
  "subvol_id" : "272",
  "parent_id" : "257",

```

```

"subvol_name" : "@/var/lib/mysql",
"subvol_mount_path" : "/var/lib/mysql"
}, {
"uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
"is_snapshot" : "false",
"subvol_id" : "273",
"parent_id" : "257",
"subvol_name" : "@/var/lib/named",
"subvol_mount_path" : "/var/lib/named"
}, {
"uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
"is_snapshot" : "false",
"subvol_id" : "274",
"parent_id" : "257",
"subvol_name" : "@/var/lib/pgsql",
"subvol_mount_path" : "/var/lib/pgsql"
}, {
"uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
"is_snapshot" : "false",
"subvol_id" : "275",
"parent_id" : "257",
"subvol_name" : "@/var/log",
"subvol_mount_path" : "/var/log"
}, {
"uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
"is_snapshot" : "false",
"subvol_id" : "276",
"parent_id" : "257",
"subvol_name" : "@/var/opt",
"subvol_mount_path" : "/var/opt"
}, {
"uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
"is_snapshot" : "false",
"subvol_id" : "277",
"parent_id" : "257",
"subvol_name" : "@/var/spool",
"subvol_mount_path" : "/var/spool"
}, {
"uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
"is_snapshot" : "false",
"subvol_id" : "278",
"parent_id" : "257",
"subvol_name" : "@/var/tmp",
"subvol_mount_path" : "/var/tmp"
}, {
"uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
"is_snapshot" : "true",
"subvol_id" : "282",
"parent_id" : "258",
"subvol_name" : "@/.snapshots/2/snapshot",
"subvol_mount_path" : "null"
}
]
}],
"cpu_quantity" : 1,
"memory" : 934752256,
"networks" : [ {
"name" : "eth0",
"ip" : "192.168.136.xxx",
"netmask" : "netmask",
"gateway" : "gateway",
"mac" : "1a9660eb8a3ffcf4df6d7865b52eb54f7b0cd194029e0eadd8e2c7f1267d80c0"
} ],
"ip" : "192.168.136.xxx",
"agent_version" : "2.2.1"
}

```

Example Response

Status code: 200

The source server has been registered with SMS.

```
{  
  "id" : "xxxxxxxxxxxxxxxxxxxxxxxxxxxx00000001"  
}
```

Status Codes

| Status Code | Description |
|-------------|---|
| 200 | The source server has been registered with SMS. |

Error Codes

For details, see [Error Codes](#).

5.3.3 Listing Source Servers

Function

After the Agent installed on a source server is started, the Agent registers the source server information with SMS. This API is used to list the registered source servers.

Calling Method

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

URI

GET /v3/sources

Table 5-25 Query parameters

| Parameter | Mandatory | Type | Description |
|------------|-----------|--------|--|
| state | No | String | The source server status. The value can be: <ul style="list-style-type: none"> • unavailable • waiting • initialize • replicate • syncing • stopping • stopped • deleting • error • cloning • cutovering • finished |
| name | No | String | The source server name. Minimum length: 0 characters Maximum length: 255 characters |
| id | No | String | The source server ID. Minimum length: 0 characters Maximum length: 255 characters |
| ip | No | String | The IP address of the source server. Minimum length: 0 characters Maximum length: 255 characters |
| migproject | No | String | The ID of the migration project in which the source servers will be queried. If this parameter is specified, only the source servers in migration tasks contained in the project are queried. Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Mandatory | Type | Description |
|-----------------------------|-----------|---------|---|
| limit | No | Integer | The number of source servers recorded on each page. 0 indicates that the default value 200 is used. Minimum value: 0 Maximum value: 200 Default value: 200 |
| offset | No | Integer | The offset. Minimum value: 0 Maximum value: 65535 Default value: 0 |
| migration_cycle | No | String | The current migration stage of the source server. Minimum length: 0 characters Maximum length: 255 characters The value can be: <ul style="list-style-type: none"> • checking • setting • replicating • syncing • cutovering • cutovered |
| connected | No | Boolean | Whether to query source servers that are disconnected from SMS |
| enterprise_project_id | No | String | The ID of the enterprise project to be queried. Minimum length: 0 characters Maximum length: 255 characters |
| is_consistency_result_exist | No | Boolean | Check whether there are consistency verification results. |

Request

Table 5-26 Request header parameter

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| X-Auth-Token | Yes | String | The user token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header). Minimum length: 1 character Maximum length: 16,384 characters |

Response

Status code: 200

Table 5-27 Response body parameters

| Parameter | Type | Description |
|----------------|--|---|
| count | Integer | The total number of source servers that meet the query criteria, which is not affected by limit and offset . Minimum value: 0 Maximum value: 2147483647 |
| source_servers | Array of SourceServerResponseBody objects | The list of the queried source servers. Array length: 0 to 65,535 characters |

Table 5-28 SourceServersResponseBody field description

| Parameter | Type | Description |
|-----------|--------|--|
| id | String | The source server ID. Minimum length: 0 characters Maximum length: 255 characters |
| ip | String | The IP address of the source server. Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Type | Description |
|-----------------------|---------|--|
| name | String | The source server name. Minimum length: 0 characters Maximum length: 255 characters |
| enterprise_project_id | String | The enterprise project ID. Minimum length: 0 characters Maximum length: 255 characters |
| add_date | Long | The time when the source is registered. Minimum value: 0 Maximum value: 9223372036854775807 |
| os_type | String | The OS type of the source server. Minimum length: 0 characters Maximum length: 255 characters The value can be: <ul style="list-style-type: none"> • WINDOWS • LINUX |
| os_version | String | The OS version, for example, CENTOS7.6 . Minimum length: 0 characters Maximum length: 255 characters |
| oem_system | Boolean | Specifies whether the OS is an OEM OS (Windows). |
| state | String | The source server status. Minimum length: 0 characters Maximum length: 255 characters The value can be: <ul style="list-style-type: none"> • unavailable • waiting • initialize • replicate • syncing • stopping • stopped • deleting • error • cloning • cutovering • finished |

| Parameter | Type | Description |
|--------------------|--|--|
| connected | Boolean | Specifies whether the source server is properly connected to SMS. |
| cpu_quantity | Integer | The number of CPU cores on the source server. Minimum value: 0 Maximum value: 2147483647 |
| memory | Long | The physical memory size of the source server, in bytes. Minimum value: 0 Maximum value: 9223372036854775807 |
| current_task | TaskByServer Sources object | The migration task associated with the source server. |
| checks | Array of Environment Check objects | The check items of the source server. Array length: 0 to 65,535 characters |
| init_target_server | InitTargetServer object | The recommended configuration of the target server. |
| replicatesize | Long | The amount of migrated data, in bytes. Minimum value: 0 Maximum value: 9223372036854775807 |
| stage_action_time | Long | The time when the migration stage of the source server last changed. Minimum value: 0 Maximum value: 9223372036854775807 |
| totalsize | Long | The total amount of data to be migrated, in bytes. Minimum value: 0 Maximum value: 9223372036854775807 |
| last_visit_time | Long | The time when the Agent connection status last changed. Minimum value: 0 Maximum value: 9223372036854775807 |

| Parameter | Type | Description |
|-----------------------------|---------|---|
| migration_cycle | String | The current migration stage of the source server. Minimum length: 0 characters Maximum length: 255 characters The value can be: <ul style="list-style-type: none"> • cutovering • cutovered • checking • setting • replicating • syncing |
| state_action_time | Long | The time when the status of the source server last changed. Minimum value: 0 Maximum value: 9223372036854775807 |
| is_consistency_result_exist | Boolean | Check whether there are consistency verification results. Default value: false |

Table 5-29 TaskByServerSources

| Parameter | Type | Description |
|------------------------|--------|--|
| id | String | The task ID. Minimum length: 1 character Maximum length: 255 characters |
| name | String | The task name. Minimum length: 0 characters Maximum length: 255 characters |
| type | String | The task type. Minimum length: 0 characters Maximum length: 255 characters |
| state | String | The task status. Minimum length: 0 characters Maximum length: 255 characters |
| estimate_complete_time | Long | The estimated completion time. Minimum value: 0 Maximum value: 9223372036854775807 |

| Parameter | Type | Description |
|---------------------|--|--|
| start_date | Long | The start time. Minimum value: 0 Maximum value: 9223372036854775807 |
| speed_limit | Integer | The migration rate limit. Minimum value: 0 Maximum value: 10000 |
| migrate_speed | Double | The migration rate. Minimum value: 0 Maximum value: 10000 |
| compress_rate | Double | The compression rate. Minimum value: 0 Maximum value: 10000 |
| start_target_server | Boolean | Specifies whether the target server is started. |
| vm_template_id | String | The server template ID. Minimum length: 0 characters Maximum length: 255 characters |
| region_id | String | region_id Minimum length: 0 characters Maximum length: 255 characters |
| project_name | String | The project name. Minimum length: 0 characters Maximum length: 255 characters |
| project_id | String | The project ID. Minimum length: 0 characters Maximum length: 255 characters |
| target_server | TargetServer ById object | The information about the target server. |
| log_collect_status | String | The log collection status. Minimum length: 0 characters Maximum length: 255 characters |
| exist_server | Boolean | Specifies whether an existing ECS is used as the target server. |
| use_public_ip | Boolean | Indicates whether to use a public IP address for migration. |

| Parameter | Type | Description |
|-----------------|------------------------------------|--|
| clone_server | CloneServer object | The information about the cloned server. |
| remain_seconds | Long | The migration duration. Minimum value: 0 Maximum value: 9223372036854775807 |
| log_bucket | String | The name of the bucket to which logs are uploaded. Minimum length: 0 characters Maximum length: 255 characters |
| log_expire | Long | The validity period of the sharing link. Minimum value: 300 Maximum value: 64800 |
| log_upload_time | Long | The log upload time. Minimum value: 0 Maximum value: 9223372036854775807 |
| log_share_url | String | The share URL. Minimum length: 0 characters Maximum length: 65,535 characters |

Table 5-30 TargetServerById field description

| Parameter | Type | Description |
|-----------|--------|--|
| vm_id | String | The target server ID. Minimum length: 0 characters Maximum length: 255 characters |
| name | String | The name of the target server. Minimum length: 0 characters Maximum length: 255 characters |

Table 5-31 CloneServer field description

| Parameter | Type | Description |
|-----------|--------|---|
| vm_id | String | The cloned server ID. Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Type | Description |
|-------------|--------|---|
| name | String | The name of the cloned server. Minimum length: 0 characters Maximum length: 255 characters |
| clone_error | String | The error code returned for a clone failure. Minimum length: 0 characters Maximum length: 255 characters |
| clone_state | String | The clone status. Minimum length: 0 characters Maximum length: 255 characters |
| error_msg | String | The error message returned for a clone failure. Minimum length: 0 characters Maximum length: 1,024 characters |

Table 5-32 EnvironmentCheck field description

| Parameter | Type | Description |
|------------|------------------|---|
| id | Long | The check item ID. Minimum value: 0 Maximum value: 9223372036854775807 |
| params | Array of strings | The parameters. Minimum length: 0 characters Maximum length: 255 characters Array length: 0 to 65,535 characters |
| name | String | The check item name. Minimum length: 0 characters Maximum length: 255 characters |
| result | String | The check result. Minimum length: 0 characters Maximum length: 255 characters The value can be: <ul style="list-style-type: none"> • OK • WARN • ERROR |
| error_code | String | The returned error code. Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Type | Description |
|---------------|--------|---|
| error_or_warn | String | The error or warning. Minimum length: 0 characters Maximum length: 255 characters |
| error_params | String | The parameters that failed the check. Minimum length: 0 characters Maximum length: 255 characters |

Table 5-33 InitTargetServer field description

| Parameter | Type | Description |
|---------------|---|---|
| disks | Array of DiskIntargetServer objects | The information about the recommended target server disks. Array length: 0 to 65,535 characters |
| volume_groups | Array of VolumeGroups objects | This parameter is mandatory for Linux. If there are no volume groups, the value is an empty array []. Array length: 0 to 65,535 characters |

Table 5-34 DiskIntargetServer field description

| Parameter | Type | Description |
|------------|--------|---|
| name | String | The disk name. Minimum length: 0 characters Maximum length: 255 characters |
| size | Long | The disk size, in bytes. Minimum value: 0 Maximum value: 9223372036854775807 |
| device_use | String | The disk function. Minimum length: 0 characters Maximum length: 255 characters The value can be: <ul style="list-style-type: none"> • BOOT • OS • NORMAL |

| Parameter | Type | Description |
|------------------|---|--|
| used_size | Long | The used disk space, in bytes. Minimum value: 0 Maximum value: 9223372036854775807 |
| physical_volumes | Array of PhysicalVolumes objects | The physical volume information. Array length: 0 to 65,535 characters |

Table 5-35 PhysicalVolumes field description

| Parameter | Type | Description |
|-------------|---------|---|
| device_use | String | The partition function. The value can be NORMAL , BOOT , or OS . Minimum length: 0 characters Maximum length: 255 characters |
| file_system | String | The file system type. Minimum length: 0 characters Maximum length: 255 characters |
| index | Integer | The serial number of the volume. Minimum value: 0 Maximum value: 2147483647 |
| mount_point | String | The mount point. Minimum length: 0 characters Maximum length: 255 characters |
| name | String | The volume name. In Windows, it indicates the drive letter, and in Linux, it indicates the device ID. Minimum length: 0 characters Maximum length: 255 characters |
| size | Long | The size. Minimum value: 0 Maximum value: 9223372036854775807 |
| inode_size | Long | The number of inodes. Minimum value: 0 Maximum value: 9223372036854775807 |
| used_size | Long | The used space. Minimum value: 0 Maximum value: 9223372036854775807 |

| Parameter | Type | Description |
|-----------|--------|---|
| The UUID. | String | The GUID of the volume, which can be obtained from the source server. Minimum length: 0 characters Maximum length: 255 characters |

Table 5-36 VolumeGroups field description

| Parameter | Type | Description |
|-----------------|--|--|
| components | String | The physical volume information. Minimum length: 0 characters Maximum length: 255 characters |
| free_size | Long | The available space. Minimum value: 0 Maximum value: 9223372036854775807 |
| logical_volumes | Array of LogicalVolumes objects | The logical volume information. Array length: 0 to 255 characters |
| name | String | The name. Minimum length: 0 characters Maximum length: 255 characters |
| size | Long | The size. Minimum value: 0 Maximum value: 9223372036854775807 |

Table 5-37 LogicalVolumes field description

| Parameter | Type | Description |
|-------------|---------|---|
| block_count | Integer | The number of blocks. Minimum value: 0 Maximum value: 2147483647 Default: 0 |
| block_size | Long | The block size. Minimum value: 0 Maximum value: 1048576 Default value: 0 |

| Parameter | Type | Description |
|-------------|---------|---|
| file_system | String | The file system. Minimum length: 0 characters Maximum length: 255 characters |
| inode_size | Integer | The number of inodes. Minimum value: 0 Maximum value: 2147483647 |
| inode_nums | Long | The number of inodes. Minimum value: 0 Maximum value: 9223372036854775807 |
| device_use | String | The partition function. The value can be NORMAL , BOOT , or OS . Minimum length: 0 characters Maximum length: 255 characters |
| mount_point | String | The mount point. Minimum length: 0 characters Maximum length: 256 characters |
| name | String | The name. Minimum length: 0 characters Maximum length: 1,024 characters |
| size | Long | The size. Minimum value: 0 Maximum value: 9223372036854775807 |
| used_size | Long | The used space. Minimum value: 0 Maximum value: 9223372036854775807 |
| free_size | Long | The available space. Minimum value: 0 Maximum value: 9223372036854775807 |

Status code: 500

Table 5-38 Response body parameters

| Parameter | Type | Description |
|------------|--------|--|
| error_code | String | The error code. Minimum length: 0 characters Maximum length: 255 characters |
| error_msg | String | The error message. Minimum length: 0 characters Maximum length: 1,024 characters |

Example Request

This example lists all registered source servers with 10 records on one page and navigates to page 0.

```
GET https://{endpoint}/v3/sources?limit=10&offset=0
```

Example Response

Status code: 200

The source server list is obtained.

```
{
  "count": 10,
  "source_servers": [ {
    "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "ip": "192.168.0.1",
    "name": "sms-test",
    "enterprise_project_id": 0,
    "add_date": 1598417717000,
    "os_type": "WINDOWS",
    "os_version": "WINDOWS2008_R2_64BIT",
    "oem_system": false,
    "state": "finished",
    "connected": true,
    "cpu_quantity": 1,
    "memory": 2146557952,
    "current_task": {
      "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      "name": "MigrationTask",
      "type": "MIGRATE_BLOCK",
      "state": "MIGRATE_SUCCESS",
      "estimate_complete_time": null,
      "start_date": 1598417771000,
      "speed_limit": 0,
      "migrate_speed": 0.0,
      "start_target_server": true,
      "vm_template_id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      "region_id": "region_id",
      "project_name": "project_name",
      "project_id": "xxxxxxxxxxxxxxxxxxxxxxxx00000001",
      "target_server": {
        "vm_id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
        "name": "sms-test"
      }
    },
    "log_collect_status": "INIT",
    "exist_server": false,
    "use_public_ip": true,
  }
}
```

```
"clone_server" : null,
"remain_seconds" : null
},
"checks" : [ {
  "id" : 524062,
  "params" : [ "" ],
  "name" : "OS_VERSION",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 524063,
  "params" : [ "" ],
  "name" : "FIRMWARE",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 524064,
  "params" : [ "" ],
  "name" : "CPU",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 524065,
  "params" : [ "" ],
  "name" : "MEMORY",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 524066,
  "params" : [ "" ],
  "name" : "SYSTEM_ROOT",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 524067,
  "params" : [ "" ],
  "name" : "PARTITION_STYLE",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 524068,
  "params" : [ "" ],
  "name" : "FILE_SYSTEM",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 524069,
  "params" : [ "" ],
  "name" : "FREE_SPACE",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 524070,
  "params" : [ "" ],
  "name" : "OEM_SYSTEM",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 524071,
  "params" : [ "" ],
```

```
"name": "DRIVER_FILE",
"result": "OK",
"error_code": null,
"error_params": ""
}, {
  "id": 524072,
  "params": [ "" ],
  "name": "SERVICE",
  "result": "OK",
  "error_code": null,
  "error_params": ""
}, {
  "id": 524073,
  "params": [ "" ],
  "name": "ACCOUNT_RIGHTS",
  "result": "OK",
  "error_code": null,
  "error_params": ""
}],
"init_target_server": {
  "disks": [ {
    "name": "Disk 0",
    "size": 42949672960,
    "device_use": "OS"
  } ]
},
"replicatesize": 0,
"stage_action_time": 1598419352959,
"totalsize": 0,
"last_visit_time": 1598434312002,
"migration_cycle": "cutovered",
"state_action_time": 1598419352959
}, {
  "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "ip": "192.168.0.154",
  "name": "sms-win16",
  "add_date": 1598417612000,
  "os_type": "WINDOWS",
  "os_version": "WINDOWS2016_64BIT",
  "oem_system": false,
  "state": "finished",
  "connected": true,
  "cpu_quantity": 1,
  "memory": 2146553856,
  "current_task": {
    "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "name": "MigrationTask",
    "type": "MIGRATE_BLOCK",
    "state": "MIGRATE_SUCCESS",
    "estimate_complete_time": null,
    "start_date": 1598417627000,
    "speed_limit": 0,
    "migrate_speed": 0.0,
    "start_target_server": true,
    "vm_template_id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "region_id": "region_id",
    "project_name": "project_name",
    "project_id": "xxxxxxxxxxxxxxxxxxxxxxxx00000001",
    "target_server": {
      "vm_id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      "name": "e2e-sms-win16"
    }
  },
  "log_collect_status": "INIT",
  "exist_server": false,
  "use_public_ip": true,
  "clone_server": null,
  "remain_seconds": null
},
"checks": [ {
```

```
"id" : 524050,
"params" : [ "" ],
"name" : "OS_VERSION",
"result" : "OK",
"error_code" : null,
"error_params" : ""
}, {
  "id" : 524051,
  "params" : [ "" ],
  "name" : "FIRMWARE",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 524052,
  "params" : [ "" ],
  "name" : "CPU",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 524053,
  "params" : [ "" ],
  "name" : "MEMORY",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 524054,
  "params" : [ "" ],
  "name" : "SYSTEM_ROOT",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 524055,
  "params" : [ "" ],
  "name" : "PARTITION_STYLE",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 524056,
  "params" : [ "" ],
  "name" : "FILE_SYSTEM",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 524057,
  "params" : [ "" ],
  "name" : "FREE_SPACE",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 524058,
  "params" : [ "" ],
  "name" : "OEM_SYSTEM",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 524059,
  "params" : [ "" ],
  "name" : "DRIVER_FILE",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}
```



```

    }, {
      "id" : 524060,
      "params" : [ "" ],
      "name" : "SERVICE",
      "result" : "OK",
      "error_code" : null,
      "error_params" : ""
    }, {
      "id" : 524061,
      "params" : [ "" ],
      "name" : "ACCOUNT_RIGHTS",
      "result" : "OK",
      "error_code" : null,
      "error_params" : ""
    }
  ],
  "init_target_server" : {
    "disks" : [ {
      "name" : "Disk 0",
      "size" : 42949672960,
      "device_use" : "OS"
    }
  ]
},
"replicatesize" : 0,
"stage_action_time" : 1598419339661,
"totalsize" : 0,
"last_visit_time" : 1598434316810,
"migration_cycle" : "cutovered",
"state_action_time" : 1598419339661
}, {
  "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "ip" : "192.168.77.77",
  "name" : "sms-centos",
  "add_date" : 1598417551000,
  "os_type" : "LINUX",
  "os_version" : "CENTOS_7_4_64BIT",
  "oem_system" : false,
  "state" : "error",
  "connected" : true,
  "cpu_quantity" : 1,
  "memory" : 1038716928,
  "current_task" : {
    "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "name" : "MigrationTask",
    "type" : "MIGRATE_BLOCK",
    "state" : "MIGRATE_FAIL",
    "estimate_complete_time" : null,
    "start_date" : 1598417588000,
    "speed_limit" : 0,
    "migrate_speed" : 0.0,
    "start_target_server" : true,
    "vm_template_id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "region_id" : "region_id",
    "project_name" : "project_name",
    "project_id" : "xxxxxxxxxxxxxxxxxxxxxxxx00000001",
    "target_server" : {
      "vm_id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      "name" : "e2e-sms-centos"
    }
  },
  "log_collect_status" : "INIT",
  "exist_server" : false,
  "use_public_ip" : true,
  "clone_server" : null,
  "remain_seconds" : null
},
"checks" : [ {
  "id" : 524038,
  "params" : [ "" ],
  "name" : "OS_VERSION",
  "result" : "OK",

```

```
"error_code" : null,
"error_params" : ""
}, {
  "id" : 524039,
  "params" : [ "" ],
  "name" : "CPU",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 524040,
  "params" : [ "" ],
  "name" : "MEMORY",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 524041,
  "params" : [ "" ],
  "name" : "PARAVIRTUALIZATION",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 524042,
  "params" : [ "" ],
  "name" : "FIRMWARE",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 524043,
  "params" : [ "" ],
  "name" : "BOOT_LOADER",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 524044,
  "params" : [ "" ],
  "name" : "RSYNC",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 524045,
  "params" : [ "" ],
  "name" : "RAW_DEVICES",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 524046,
  "params" : [ "" ],
  "name" : "DISK_INFO",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 524047,
  "params" : [ "" ],
  "name" : "PARTITION_STYLE",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 524048,
  "params" : [ "" ],
  "name" : "FILE_SYSTEM",
```

```

"result": "OK",
"error_code": null,
"error_params": ""
}, {
  "id": 524049,
  "params": [ "" ],
  "name": "LINUX_BLOCK_SUPPORT",
  "result": "OK",
  "error_code": null,
  "error_params": ""
}],
"init_target_server": {
  "disks": [ {
    "name": "/dev/vda",
    "size": 42949672960,
    "device_use": "BOOT"
  } ]
},
"replicatesize": 42949672960,
"stage_action_time": 1598428182454,
"totalsize": 42949672960,
"last_visit_time": 1598434308889,
"migration_cycle": "syncing",
"state_action_time": 1598428182454
}, {
  "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "ip": "192.168.0.235",
  "name": "sms-ubuntu",
  "add_date": 1598417522000,
  "os_type": "LINUX",
  "os_version": "UBUNTU_18_4_64BIT",
  "oem_system": false,
  "state": "unavailable",
  "connected": false,
  "cpu_quantity": 1,
  "memory": 1032556544,
  "current_task": null,
  "checks": [ ],
  "init_target_server": {
    "disks": [ {
      "name": "/dev/vda",
      "size": 42949672960,
      "device_use": "BOOT"
    }, {
      "name": "/dev/vdb",
      "size": 21474836480,
      "device_use": "NORMAL"
    } ]
  },
  "replicatesize": 0,
  "stage_action_time": 1598417521797,
  "totalsize": 0,
  "last_visit_time": 1598417521795,
  "migration_cycle": "checking",
  "state_action_time": null
}, {
  "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "ip": "192.168.178.214",
  "name": "sms-sms2",
  "add_date": 1598403465000,
  "os_type": "WINDOWS",
  "os_version": "WINDOWS2012_R2_64BIT",
  "oem_system": false,
  "state": "waiting",
  "connected": false,
  "cpu_quantity": 1,
  "memory": 2146553856,
  "current_task": null,
  "checks": [ {

```

```
"id" : 523970,
"params" : [ "" ],
"name" : "OS_VERSION",
"result" : "OK",
"error_code" : null,
"error_params" : ""
}, {
  "id" : 523971,
  "params" : [ "" ],
  "name" : "FIRMWARE",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 523972,
  "params" : [ "" ],
  "name" : "CPU",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 523973,
  "params" : [ "" ],
  "name" : "MEMORY",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 523974,
  "params" : [ "" ],
  "name" : "SYSTEM_ROOT",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 523975,
  "params" : [ "" ],
  "name" : "PARTITION_STYLE",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 523976,
  "params" : [ "" ],
  "name" : "FILE_SYSTEM",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 523977,
  "params" : [ "" ],
  "name" : "FREE_SPACE",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 523978,
  "params" : [ "" ],
  "name" : "OEM_SYSTEM",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 523979,
  "params" : [ "" ],
  "name" : "DRIVER_FILE",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}
```

```

    }, {
      "id" : 523980,
      "params" : [ "" ],
      "name" : "SERVICE",
      "result" : "OK",
      "error_code" : null,
      "error_params" : ""
    }, {
      "id" : 523981,
      "params" : [ "" ],
      "name" : "ACCOUNT_RIGHTS",
      "result" : "OK",
      "error_code" : null,
      "error_params" : ""
    }
  ],
  "init_target_server" : {
    "disks" : [ {
      "name" : "Disk 0",
      "size" : 42949672960,
      "device_use" : "OS"
    }
  ]
},
"replicatesize" : 0,
"stage_action_time" : 1598403465315,
"totalsize" : 0,
"last_visit_time" : 1598403588140,
"migration_cycle" : "checking",
"state_action_time" : 1598403465414
}, {
  "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "ip" : "192.168.0.1",
  "name" : "linux sources",
  "add_date" : 1598369476000,
  "os_type" : "LINUX",
  "os_version" : "REDHAT_7_3_64BIT",
  "oem_system" : false,
  "state" : "unavailable",
  "connected" : false,
  "cpu_quantity" : 4,
  "memory" : 8581140480,
  "current_task" : null,
  "checks" : [ ],
  "init_target_server" : {
    "disks" : [ {
      "name" : "sda",
      "size" : 85899345920,
      "device_use" : "BOOT|OS"
    }, {
      "name" : "sdb",
      "size" : 214748364800,
      "device_use" : "NORMAL"
    }
  ]
},
"replicatesize" : 0,
"stage_action_time" : 1598369475726,
"totalsize" : 0,
"last_visit_time" : 1598369475725,
"migration_cycle" : "checking",
"state_action_time" : null
}, {
  "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "ip" : "192.168.0.1",
  "name" : "linux sources",
  "add_date" : 1598351694000,
  "os_type" : "LINUX",
  "os_version" : "REDHAT_7_3_64BIT",
  "oem_system" : false,
  "state" : "unavailable",
  "connected" : false,

```

```

"cpu_quantity" : 4,
"memory" : 8581140480,
"current_task" : null,
"checks" : [ ],
"init_target_server" : {
  "disks" : [ {
    "name" : "sda",
    "size" : 85899345920,
    "device_use" : "BOOT|OS"
  }, {
    "name" : "sdb",
    "size" : 214748364800,
    "device_use" : "NORMAL"
  } ]
},
"replicatesize" : 0,
"stage_action_time" : 1598351693858,
"totalsize" : 0,
"last_visit_time" : 1598351693857,
"migration_cycle" : "checking",
"state_action_time" : null
}, {
  "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "ip" : "192.168.0.1",
  "name" : "linux sources",
  "add_date" : 1598348080000,
  "os_type" : "LINUX",
  "os_version" : "REDHAT_7_3_64BIT",
  "oem_system" : false,
  "state" : "unavailable",
  "connected" : false,
  "cpu_quantity" : 4,
  "memory" : 8581140480,
  "current_task" : null,
  "checks" : [ ],
  "init_target_server" : {
    "disks" : [ {
      "name" : "sda",
      "size" : 85899345920,
      "device_use" : "BOOT|OS"
    }, {
      "name" : "sdb",
      "size" : 214748364800,
      "device_use" : "NORMAL"
    } ]
  },
  "replicatesize" : 0,
  "stage_action_time" : 1598348079782,
  "totalsize" : 0,
  "last_visit_time" : 1598348079781,
  "migration_cycle" : "checking",
  "state_action_time" : null
}, {
  "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "ip" : "192.168.0.239",
  "name" : "sms-centos7",
  "add_date" : 1598326505000,
  "os_type" : "LINUX",
  "os_version" : "CENTOS_8_5_64BIT",
  "oem_system" : false,
  "state" : "unavailable",
  "connected" : false,
  "cpu_quantity" : 1,
  "memory" : 1926860800,
  "current_task" : null,
  "checks" : [ {
    "id" : 523794,
    "params" : [ "" ],
    "name" : "OS_VERSION",

```

```
"result": "ERROR",
"error_code": "SMS.6504",
"error_params": ""
}, {
  "id": 523795,
  "params": [ "" ],
  "name": "CPU",
  "result": "OK",
  "error_code": null,
  "error_params": ""
}, {
  "id": 523796,
  "params": [ "" ],
  "name": "MEMORY",
  "result": "OK",
  "error_code": null,
  "error_params": ""
}, {
  "id": 523797,
  "params": [ "" ],
  "name": "PARAVIRTUALIZATION",
  "result": "OK",
  "error_code": null,
  "error_params": ""
}, {
  "id": 523798,
  "params": [ "" ],
  "name": "FIRMWARE",
  "result": "OK",
  "error_code": null,
  "error_params": ""
}, {
  "id": 523799,
  "params": [ "" ],
  "name": "BOOT_LOADER",
  "result": "OK",
  "error_code": null,
  "error_params": ""
}, {
  "id": 523800,
  "params": [ "" ],
  "name": "RSYNC",
  "result": "OK",
  "error_code": null,
  "error_params": ""
}, {
  "id": 523801,
  "params": [ "" ],
  "name": "RAW_DEVICES",
  "result": "OK",
  "error_code": null,
  "error_params": ""
}, {
  "id": 523802,
  "params": [ "" ],
  "name": "DISK_INFO",
  "result": "OK",
  "error_code": null,
  "error_params": ""
}, {
  "id": 523803,
  "params": [ "" ],
  "name": "PARTITION_STYLE",
  "result": "OK",
  "error_code": null,
  "error_params": ""
}, {
  "id": 523804,
  "params": [ "" ],
```

```

"name" : "FILE_SYSTEM",
"result" : "OK",
"error_code" : null,
"error_params" : ""
}, {
  "id" : 523805,
  "params" : [ "" ],
  "name" : "LINUX_BLOCK_SUPPORT",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
} ],
"init_target_server" : {
  "disks" : [ {
    "name" : "/dev/vda",
    "size" : 42949672960,
    "device_use" : "BOOT"
  }, {
    "name" : "/dev/vdb",
    "size" : 42949672960,
    "device_use" : "NORMAL"
  } ]
},
"replicatesize" : 0,
"stage_action_time" : 1598326505378,
"totalsize" : 0,
"last_visit_time" : 1598423828868,
"migration_cycle" : "checking",
"state_action_time" : 1598326505459
}, {
  "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "ip" : "192.168.0.65",
  "name" : "smsc-test",
  "add_date" : 1598238727000,
  "os_type" : "LINUX",
  "os_version" : "CENTOS_6_5_64BIT",
  "oem_system" : false,
  "state" : "finished",
  "connected" : true,
  "cpu_quantity" : 1,
  "memory" : 1043931136,
  "current_task" : {
    "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "name" : "MigrationTask",
    "type" : "MIGRATE_FILE",
    "state" : "MIGRATE_SUCCESS",
    "estimate_complete_time" : null,
    "start_date" : 1598239243000,
    "speed_limit" : 0,
    "migrate_speed" : 0.0,
    "start_target_server" : true,
    "vm_template_id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "region_id" : "region_id",
    "project_name" : "project_name",
    "project_id" : "xxxxxxxxxxxxxxxxxxxxxxxx00000001",
    "target_server" : {
      "vm_id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      "name" : "smsc-test"
    }
  },
  "log_collect_status" : "INIT",
  "exist_server" : false,
  "use_public_ip" : true,
  "clone_server" : null,
  "remain_seconds" : null
},
"checks" : [ {
  "id" : 523686,
  "params" : [ "" ],
  "name" : "OS_VERSION",

```



```
"result" : "OK",
"error_code" : null,
"error_params" : ""
}, {
  "id" : 523687,
  "params" : [ "" ],
  "name" : "CPU",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 523688,
  "params" : [ "" ],
  "name" : "MEMORY",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 523689,
  "params" : [ "" ],
  "name" : "PARAVIRTUALIZATION",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 523690,
  "params" : [ "" ],
  "name" : "FIRMWARE",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 523691,
  "params" : [ "" ],
  "name" : "BOOT_LOADER",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 523692,
  "params" : [ "" ],
  "name" : "RSYNC",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 523693,
  "params" : [ "" ],
  "name" : "RAW_DEVICES",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 523694,
  "params" : [ "" ],
  "name" : "DISK_INFO",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 523695,
  "params" : [ "" ],
  "name" : "PARTITION_STYLE",
  "result" : "OK",
  "error_code" : null,
  "error_params" : ""
}, {
  "id" : 523696,
  "params" : [ "" ],
```

```

"name" : "FILE_SYSTEM",
"result" : "OK",
"error_code" : null,
"error_params" : ""
}, {
  "id" : 523697,
  "params" : [ "" ],
  "name" : "LINUX_BLOCK_SUPPORT",
  "result" : "WARN",
  "error_code" : "SMS.6617",
  "error_params" : ""
}],
"init_target_server" : {
  "disks" : [ {
    "name" : "/dev/vda",
    "size" : 42949672960,
    "device_use" : "BOOT"
  }, {
    "name" : "/dev/vdb",
    "size" : 10737418240,
    "device_use" : "NORMAL"
  } ]
},
"replicatesize" : 0,
"stage_action_time" : 1598240178677,
"totalsize" : 0,
"last_visit_time" : 1598434314748,
"migration_cycle" : "cutovered",
"state_action_time" : 1598240178677
} ]
}

```

Status Codes

| Status Code | Description |
|-------------|-------------------------------------|
| 200 | The source server list is obtained. |
| 500 | Internal Server Error |

Error Codes

For details, see [Error Codes](#).

5.3.4 Batch Deleting Source Server Records

Function

This API is used to delete source server records in batches. Once the information about a source server is deleted, you can add the information about the source server to the SMS console again only by restarting the migration Agent on the source server.

Calling Method

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

URI

POST /v3/sources/delete

Request

Table 5-39 Request header parameter

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| X-Auth-Token | Yes | String | The user token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header). Minimum length: 1 character Maximum length: 16,384 characters |

Table 5-40 Request body parameters

| Parameter | Mandatory | Type | Description |
|-----------|-----------|------------------|--|
| ids | Yes | Array of strings | The IDs of all source servers to be deleted. Minimum length: 0 characters Maximum length: 255 characters Array length: 0 to 65,535 characters |

Response

None

Example Request

This example deletes source servers **ec2a894f-0d92-47c5-ac22-168ef61dxxxx** and **5f13089f-799f-4f33-b3e1-c499397dxxxx** in a batch.

```
POST https://{endpoint}/v3/sources/delete
{
  "ids" : [ "ec2a894f-0d92-47c5-ac22-168ef61dxxxx", "5f13089f-799f-4f33-b3e1-c499397dxxxx" ]
}
```

Example Response

None

Status Codes

| Status Code | Description |
|-------------|--------------------|
| 200 | Response returned. |

Error Codes

For details, see [Error Codes](#).

5.3.5 Modifying a Source Server Name

Function

This API is used to modify the source name of the source server on the SMS server so that users can manage the source servers through SMS.

Calling Method

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

URI

PUT /v3/sources/{source_id}

Table 5-41 Path parameter

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|---|
| source_id | Yes | String | The ID of the source server displayed on the SMS console. Minimum length: 0 characters Maximum length: 255 characters |

Request

Table 5-42 Request header parameter

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| X-Auth-Token | Yes | String | The user token. The token can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token. Minimum length: 1 character Maximum length: 16,384 characters |

Table 5-43 Request body parameters

| Parameter | Mandatory | Type | Description |
|----------------|-----------|---|--|
| name | No | String | The new name of the source server. Minimum length: 0 characters Maximum length: 255 characters |
| migprojectid | No | String | The ID of the migration project to which the source server belongs after the modification. Minimum length: 0 characters Maximum length: 255 characters |
| disks | No | Array of PutDisk objects | The disk information. Array length: 0 to 65,535 characters |
| volume_group_s | No | Array of PutVolumeGroups objects | The volume group information. Array length: 0 to 65,535 characters |

Table 5-44 PutDisk field description

| Parameter | Mandatory | Type | Description |
|------------------|-----------|-----------------------------------|--|
| need_migration | No | Boolean | The disk name. Default value: true |
| id | Yes | String | The disk ID. Minimum length: 0 characters Maximum length: 255 characters |
| adjust_size | Yes | Long | The new size. Minimum value: 0 Maximum value: 9223372036854775807 Default value: 0 |
| physical_volumes | No | Array of PutVolume objects | The information about the volume to be modified. Array length: 0 to 65,535 characters |

Table 5-45 PutVolume field description

| Parameter | Mandatory | Type | Description |
|----------------|-----------|---------|--|
| id | No | String | The database ID. Minimum length: 0 characters Maximum length: 255 characters |
| need_migration | No | Boolean | Specifies whether the volume needs to be migrated. Default value: true |
| adjust_size | No | Long | The new size. Minimum value: 0 Maximum value: 9223372036854775807 Default value: 0 |

Table 5-46 PutVolumeGroups field description

| Parameter | Mandatory | Type | Description |
|-----------------|-----------|---|--|
| logical_volumes | No | Array of PutLogicalVolume objects | The logical volume information. Array length: 0 to 65,535 characters |
| id | Yes | String | The volume group ID. Minimum length: 0 characters Maximum length: 255 characters |
| need_migration | No | Boolean | Specifies whether the volume needs to be migrated. Default value: true |
| adjust_size | No | Long | The new size. Minimum value: 0 Maximum value: 9223372036854775807 Default value: 0 |

Table 5-47 PutLogicalVolume field description

| Parameter | Mandatory | Type | Description |
|----------------|-----------|---------|--|
| id | Yes | String | The logical volume ID. Minimum length: 0 characters Maximum length: 255 characters |
| need_migration | No | Boolean | Specifies whether the volume needs to be migrated. Default value: true |
| adjust_size | No | Long | The new size. Minimum value: 0 Maximum value: 9223372036854775807 Default value: 0 |

Response

None

Example Request

This example changes the name of the source server whose ID is **dcdb339-b02d-4578-95a1-9c9c547dxxxx** to **abcd**.

```
PUT https://{endpoint}/v3/sources/dcdb339-b02d-4578-95a1-9c9c547dxxxx
{
  "name" : "abcd"
}
```

Example Response

None

Status Codes

| Status Code | Description |
|-------------|--------------------|
| 200 | Response returned. |

Error Codes

For details, see [Error Codes](#).

5.3.6 Updating the Migration Task Status of a Source Server

Function

This API is used to update the migration task status of a source server.

Calling Method

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

URI

PUT /v3/sources/{source_id}/changestate

Table 5-48 Path parameter

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|---|
| source_id | Yes | String | The ID of the source server displayed on the SMS console. Minimum length: 0 characters Maximum length: 255 characters |

Request

Table 5-49 Request header parameter

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| X-Auth-Token | Yes | String | The user token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header). Minimum length: 1 character Maximum length: 16,384 characters |

Table 5-50 Request body parameters

| Parameter | Mandatory | Type | Description |
|----------------|-----------|--------|--|
| copystate | No | String | The source server status. The value can be: <ul style="list-style-type: none"> • UNAVAILABLE • WAITING • INIT • REPLICATE • SYNCING • STOPPING • STOPPED • DELETING • ERROR • CLONING • CUTOVERING • FINISHED |
| migrationcycle | No | String | The current migration stage of the source server. The value can be: <ul style="list-style-type: none"> • cutovering • cutovered • checking • setting • replicating • syncing |

Response

None

Example Request

This example updates the replication status to **WAITING** and the migration stage to **cutovered** for the **dcdbe339-b02d-4578-95a1-9c9c547dxxxx** source server.

```
PUT https://{endpoint}/v3/sources/dcdbe339-b02d-4578-95a1-9c9c547dxxxx/changestate
{
  "copystate" : "WAITING",
  "migrationcycle" : "cutovered"
}
```

Example Response

None

Status Codes

| Status Code | Description |
|-------------|--------------------|
| 200 | Response returned. |

Error Codes

For details, see [Error Codes](#).

5.3.7 Deleting a Source Server Record

Function

This API is used to delete the record of a source server with a specified ID from the SMS console. Once the information about a source server is deleted, you can add the information about the source server to the SMS console again only by restarting the migration Agent on the source server.

Calling Method

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

URI

DELETE /v3/sources/{source_id}

Table 5-51 Path parameter

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|---|
| source_id | Yes | String | The ID of the source server displayed on the SMS console. Minimum length: 0 characters Maximum length: 255 characters |

Request

Table 5-52 Request header parameter

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| X-Auth-Token | Yes | String | The user token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header). Minimum length: 1 character Maximum length: 16,384 characters |

Response

None

Example Request

This example deletes the record of source server whose ID is **1a6d1e0b-62e5-4376-b59f-ff2fd569xxxx**.

```
DELETE https://{endpoint}/v3/sources/1a6d1e0b-62e5-4376-b59f-ff2fd569xxxx
```

Example Response

None

Status Codes

| Status Code | Description |
|-------------|--------------------|
| 200 | Response returned. |

Error Codes

For details, see [Error Codes](#).

5.3.8 Querying Details About a Source Server

Function

After the migration Agent reports the source server information to SMS, SMS checks the migration feasibility. This API returns the basic information and check results of the source server.

Calling Method

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

URI

GET /v3/sources/{source_id}

Table 5-53 Path parameter

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|---|
| source_id | Yes | String | The ID of the source server displayed on the SMS console. Minimum length: 0 characters Maximum length: 255 characters |

Request

Table 5-54 Request header parameter

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| X-Auth-Token | Yes | String | The user token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header). Minimum length: 1 character Maximum length: 16,384 characters |

Response

Status code: 200

Table 5-55 Response body parameters

| Parameter | Type | Description |
|-----------------------|---------|--|
| id | String | The source server ID. Minimum length: 0 characters Maximum length: 255 characters |
| ip | String | The IP address of the source server. Minimum length: 0 characters Maximum length: 255 characters |
| name | String | The name of the source server displayed on the SMS console. Minimum length: 0 characters Maximum length: 255 characters |
| hostname | String | The hostname of the source server. This parameter is mandatory for registering the source server with SMS and optional for updating the information about the source server. Minimum length: 0 characters Maximum length: 255 characters |
| enterprise_project_id | String | The enterprise project ID. Minimum length: 1 character Maximum length: 255 characters |
| add_date | Long | The time when the source is registered. Minimum value: 0 Maximum value: 9223372036854775807 |
| os_type | String | The OS type of the source server. This parameter is mandatory for registering the source server with SMS and optional for updating the information about the source server. Minimum length: 0 characters Maximum length: 255 characters |
| os_version | String | The OS version. This parameter is mandatory for registration and optional for update. Minimum length: 0 characters Maximum length: 255 characters |
| oem_system | Boolean | Specifies whether the OS is an OEM OS (Windows). |

| Parameter | Type | Description |
|--------------------|---|---|
| state | String | The source server status. The value can be: <ul style="list-style-type: none"> • unavailable • waiting • initialize • replicate • syncing • stopping • stopped • deleting • error • cloning • testing • finished |
| connected | Boolean | Specifies whether the Agent installed on the source server is properly connected to SMS. |
| firmware | String | The boot mode. The value can be: <ul style="list-style-type: none"> • BIOS • UEFI |
| init_target_server | InitTargetServer object | The recommended configuration of the target server. |
| cpu_quantity | Integer | The number of CPU cores on the source server. Minimum value: 0 Maximum value: 65535 |
| memory | Long | The physical memory size (MB) of the source server. Minimum value: 0 Maximum value: 9223372036854775807 |
| current_task | TaskByServerSource object | The migration task associated with the source server. |
| disks | Array of ServerDisk objects | The disk information of the source server. Array length: 0 to 65,535 characters |
| volume_groups | Array of VolumeGroups objects | The volume group information of the source server. If there are no volume groups, the value is an empty array []. Array length: 0 to 65,535 characters |

| Parameter | Type | Description |
|-------------------|--|---|
| btrfs_list | Array of BtrfsFileSystem objects | The information about Btrfs file systems on the source server. This parameter is mandatory for Linux. If there are no Btrfs file systems on the source server, the value is an empty array []. Array length: 0 to 65,535 characters |
| networks | Array of NetWork objects | The NIC information of the source server. Array length: 0 to 65,535 characters |
| checks | Array of Environment Check objects | The information about the migration feasibility check of the source server. Array length: 0 to 65,535 characters |
| migration_cycle | String | The current migration stage of the source server. Minimum length: 0 characters Maximum length: 255 characters The value can be: <ul style="list-style-type: none"> • cutovering • cutovered • checking • setting • replicating • syncing |
| state_action_time | Long | The time (in timestamp) when the status of the source server last changed. Minimum value: 0 Maximum value: 9223372036854775807 |
| replicatesize | Long | The amount of data that has been migrated, in bytes. Minimum value: 0 Maximum value: 9223372036854775807 |
| totalsize | Long | The total amount of data to be migrated, in bytes. Minimum value: 0 Maximum value: 9223372036854775807 |
| last_visit_time | Long | The time (in timestamp) when the Agent connection status last changed. Minimum value: 0 Maximum value: 9223372036854775807 |

| Parameter | Type | Description |
|-------------------|--------|--|
| stage_action_time | Long | The time when the migration stage of the source server last changed. Minimum value: 0 Maximum value: 9223372036854775807 |
| agent_version | String | The version of the Agent installed on the source server. Minimum length: 0 characters Maximum length: 255 characters |

Table 5-56 InitTargetServer field description

| Parameter | Type | Description |
|---------------|--|---|
| disks | Array of DiskIntargetServer objects | The information about the recommended target server disks. Array length: 0 to 65,535 characters |
| volume_groups | Array of VolumeGroups objects | This parameter is mandatory for Linux. If there are no volume groups, the value is an empty array []. Array length: 0 to 65,535 characters |

Table 5-57 DiskIntargetServer field description

| Parameter | Type | Description |
|------------|--------|---|
| name | String | The disk name. Minimum length: 0 characters Maximum length: 255 characters |
| size | Long | The disk size, in bytes. Minimum value: 0 Maximum value: 9223372036854775807 |
| device_use | String | The disk function. Minimum length: 0 characters Maximum length: 255 characters The value can be: <ul style="list-style-type: none"> • BOOT • OS • NORMAL |

| Parameter | Type | Description |
|------------------|---|--|
| used_size | Long | The used disk space, in bytes. Minimum value: 0 Maximum value: 9223372036854775807 |
| physical_volumes | Array of PhysicalVolumes objects | The physical volume information. Array length: 0 to 65,535 characters |

Table 5-58 PhysicalVolumes field description

| Parameter | Type | Description |
|-------------|---------|---|
| device_use | String | The partition function. The value can be NORMAL , BOOT , or OS . Minimum length: 0 characters Maximum length: 255 characters |
| file_system | String | The file system type. Minimum length: 0 characters Maximum length: 255 characters |
| index | Integer | The serial number of the volume. Minimum value: 0 Maximum value: 2147483647 |
| mount_point | String | The mount point. Minimum length: 0 characters Maximum length: 255 characters |
| name | String | The volume name. In Windows, it indicates the drive letter, and in Linux, it indicates the device ID. Minimum length: 0 characters Maximum length: 255 characters |
| size | Long | The size. Minimum value: 0 Maximum value: 9223372036854775807 |
| inode_size | Long | The number of inodes. Minimum value: 0 Maximum value: 9223372036854775807 |
| used_size | Long | The used space. Minimum value: 0 Maximum value: 9223372036854775807 |

| Parameter | Type | Description |
|-----------|--------|---|
| The UUID. | String | The GUID, which can be obtained from the source server. Minimum length: 0 characters Maximum length: 255 characters |

Table 5-59 TaskByServerSource field description

| Parameter | Type | Description |
|---------------------|---------|---|
| id | String | The task ID. Minimum length: 0 characters Maximum length: 255 characters |
| name | String | The task name. Minimum length: 0 characters Maximum length: 255 characters |
| type | String | The task type. Minimum length: 0 characters Maximum length: 255 characters |
| state | String | The task status. Minimum length: 0 characters Maximum length: 255 characters |
| start_date | Long | The start time. Minimum value: 0 Maximum value: 9223372036854775807 |
| speed_limit | Integer | The migration rate limit. Minimum value: 0 Maximum value: 10000 |
| migrate_speed | Double | The migration rate. Minimum value: 0 Maximum value: 10000 |
| start_target_server | Boolean | Specifies whether the target server is started. |
| vm_template_id | String | The server template ID. Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Type | Description |
|--------------------|--------------------------------|--|
| region_id | String | region_id Minimum length: 0 characters Maximum length: 255 characters |
| project_name | String | The project name. Minimum length: 0 characters Maximum length: 255 characters |
| project_id | String | The project ID. Minimum length: 0 characters Maximum length: 255 characters |
| target_server | TargetServerById object | The information about the target server. |
| log_collect_status | String | The log collection status. Minimum length: 0 characters Maximum length: 255 characters |
| exist_server | Boolean | Specifies whether an existing ECS is used as the target server. |
| use_public_ip | Boolean | Indicates whether to use a public IP address for migration. |
| clone_server | CloneServer object | The information about the cloned server. |

Table 5-60 TargetServerById field description

| Parameter | Type | Description |
|-----------|--------|--|
| vm_id | String | The target server ID. Minimum length: 0 characters Maximum length: 255 characters |
| name | String | The name of the target server. Minimum length: 0 characters Maximum length: 255 characters |

Table 5-61 CloneServer field description

| Parameter | Type | Description |
|-------------|--------|---|
| vm_id | String | The cloned server ID. Minimum length: 0 characters Maximum length: 255 characters |
| name | String | The name of the cloned server. Minimum length: 0 characters Maximum length: 255 characters |
| clone_error | String | The error message returned for cloning failure. Minimum length: 0 characters Maximum length: 255 characters |
| clone_state | String | The cloning status. Minimum length: 0 characters Maximum length: 255 characters |
| error_msg | String | The error message returned for cloning failure. Minimum length: 0 characters Maximum length: 1,024 characters |

Table 5-62 ServerDisk field description

| Parameter | Type | Description |
|-----------------|--------|--|
| name | String | The disk name. Minimum length: 0 characters Maximum length: 255 characters |
| partition_style | String | The disk partition type. This parameter is mandatory for source server registration. The value can be: <ul style="list-style-type: none"> • MBR • GPT |
| device_use | String | The disk type. The value can be: <ul style="list-style-type: none"> • BOOT • OS |
| size | Long | The disk size, in bytes. Minimum value: 0 Maximum value: 9223372036854775807 |

| Parameter | Type | Description |
|------------------|--|--|
| used_size | Long | The used disk space, in bytes. Minimum value: 0 Maximum value: 9223372036854775807 |
| physical_volumes | Array of PhysicalVolume objects | The physical partition information of the disk. Array length: 0 to 65,535 characters |
| os_disk | Boolean | Specifies whether the disk is the system disk. |
| relation_name | String | The name of the corresponding disk on the target server running Linux. Minimum length: 0 characters Maximum length: 255 characters |
| inode_size | Integer | The number of inodes. Minimum value: 0 Maximum value: 2147483647 |

Table 5-63 PhysicalVolume

| Parameter | Type | Description |
|-------------|---------|---|
| device_use | String | The partition function. The value can be NORMAL , BOOT , or OS . Minimum length: 0 characters Maximum length: 255 characters |
| file_system | String | The file system type. Minimum length: 0 characters Maximum length: 255 characters |
| index | Integer | The serial number of the volume. Minimum value: 0 Maximum value: 2147483647 |
| mount_point | String | The mount point. Minimum length: 0 characters Maximum length: 255 characters |
| name | String | The volume name. In Windows, it indicates the drive letter, and in Linux, it indicates the device ID. Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Type | Description |
|------------------|---------|---|
| size | Long | The size. Minimum value: 0 Maximum value: 9223372036854775807 |
| used_size | Long | The used space. Minimum value: 0 Maximum value: 9223372036854775807 |
| inode_size | Integer | The number of inodes. Minimum value: 0 Maximum value: 2147483647 |
| inode_nums | Long | The number of inodes. Minimum value: 0 Maximum value: 9223372036854775807 |
| The UUID. | String | The GUID, which can be obtained from the source server. Minimum length: 0 characters Maximum length: 255 characters |
| size_per_cluster | Integer | The size of each cluster. Minimum value: 0 Maximum value: 2147483647 |

Table 5-64 VolumeGroups field description

| Parameter | Type | Description |
|-----------------|--|--|
| components | String | The physical volume information. Minimum length: 0 characters Maximum length: 255 characters |
| free_size | Long | The available space. Minimum value: 0 Maximum value: 9223372036854775807 |
| logical_volumes | Array of LogicalVolumes objects | The logical volume information. Array length: 0 to 255 characters |
| name | String | The name. Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Type | Description |
|-----------|------|---|
| size | Long | The size. Minimum value: 0 Maximum value: 9223372036854775807 |

Table 5-65 LogicalVolumes field description

| Parameter | Type | Description |
|-------------|---------|---|
| block_count | Integer | The number of blocks. Minimum value: 0 Maximum value: 2147483647 Default: 0 |
| block_size | Long | The block size. Minimum value: 0 Maximum value: 1048576 Default value: 0 |
| file_system | String | The file system. Minimum length: 0 characters Maximum length: 255 characters |
| inode_size | Integer | The number of inodes. Minimum value: 0 Maximum value: 2147483647 |
| inode_nums | Long | The number of inodes. Minimum value: 0 Maximum value: 9223372036854775807 |
| device_use | String | The partition function. The value can be NORMAL , BOOT , or OS . Minimum length: 0 characters Maximum length: 255 characters |
| mount_point | String | The mount point. Minimum length: 0 characters Maximum length: 256 characters |
| name | String | The name. Minimum length: 0 characters Maximum length: 1,024 characters |

| Parameter | Type | Description |
|-----------|------|--|
| size | Long | The size. Minimum value: 0 Maximum value: 9223372036854775807 |
| used_size | Long | The used space. Minimum value: 0 Maximum value: 9223372036854775807 |
| free_size | Long | The available space. Minimum value: 0 Maximum value: 9223372036854775807 |

Table 5-66 BtrfsFileSystem field description

| Parameter | Type | Description |
|------------|---------|--|
| name | String | The file system name. Minimum length: 0 characters Maximum length: 255 characters |
| label | String | The file system tag. If no tag exists, the value is an empty string. Minimum length: 0 characters Maximum length: 255 characters |
| The UUID. | String | The UUID of the file system. Minimum length: 0 characters Maximum length: 255 characters |
| device | String | The device name in the Btrfs. Minimum length: 0 characters Maximum length: 255 characters |
| size | Long | The space occupied by the file system. Minimum value: 0 Maximum value: 9223372036854775807 |
| nodesize | Long | The size of the Btrfs node. Minimum value: 0 Maximum value: 9223372036854775807 |
| sectorsize | Integer | The sector size. Minimum value: 0 Maximum value: 2147483647 |

| Parameter | Type | Description |
|--------------------------|--|---|
| data_profile | String | The data profile (RAD). Minimum length: 0 characters Maximum length: 255 characters |
| system_profile | String | The file system profile (RAD). Minimum length: 0 characters Maximum length: 255 characters |
| metadata_profile | String | The metadata profile (RAD). Minimum length: 0 characters Maximum length: 255 characters |
| global_reserve_1 | String | The Btrfs file system information. Minimum length: 0 characters Maximum length: 255 characters |
| g_vol_used_size | Long | The used space of the Btrfs volume. Minimum value: 0 Maximum value: 9223372036854775807 |
| default_subvol_id | String | The ID of the default subvolume. Minimum length: 0 characters Maximum length: 255 characters |
| default_subvol_name | String | The name of the default subvolume. Minimum length: 0 characters Maximum length: 255 characters |
| default_subvol_mountpath | String | The mount path of the default subvolume or Btrfs file system. Minimum length: 0 characters Maximum length: 255 characters |
| subvolume | Array of BtrfsSubvolume objects | The subvolume information. Array length: 0 to 65,535 characters |

Table 5-67 BtrfsSubvolume field description

| Parameter | Type | Description |
|-----------|--------|--|
| The UUID. | String | The UUID of the parent volume. Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Type | Description |
|-------------------|--------|--|
| is_snapshot | String | Specifies whether the subvolume is a snapshot. Minimum length: 0 characters Maximum length: 255 characters |
| subvol_id | String | The subvolume ID. Minimum length: 0 characters Maximum length: 255 characters |
| parent_id | String | The parent volume ID. Minimum length: 0 characters Maximum length: 255 characters |
| subvol_name | String | The subvolume name. Minimum length: 0 characters Maximum length: 255 characters |
| subvol_mount_path | String | The mount path of the subvolume. Minimum length: 0 characters Maximum length: 255 characters |

Table 5-68 NetWork field description

| Parameter | Type | Description |
|-----------|---------|--|
| name | String | The NIC name. Minimum length: 0 characters Maximum length: 255 characters |
| ip | String | The IP address bound to the NIC. Minimum length: 0 characters Maximum length: 255 characters |
| netmask | String | The subnet mask. Minimum length: 0 characters Maximum length: 255 characters |
| gateway | String | The gateway. Minimum length: 0 characters Maximum length: 255 characters |
| mtu | Integer | The NIC MTU. This parameter is mandatory for Linux. Minimum value: 0 Maximum value: 2147483647 |

| Parameter | Type | Description |
|-----------|--------|--|
| mac | String | The MAC address. Minimum length: 0 characters Maximum length: 255 characters |
| id | String | The database ID. Minimum length: 0 characters Maximum length: 255 characters |

Table 5-69 NetWork field description

| Parameter | Type | Description |
|---------------|------------------|---|
| id | Long | The check item ID. Minimum value: 0 Maximum value: 9223372036854775807 |
| params | Array of strings | Parameter Minimum length: 0 characters Maximum length: 255 characters Array length: 0 to 65,535 characters |
| name | String | The check item name. Minimum length: 0 characters Maximum length: 255 characters |
| result | String | The check result. Minimum length: 0 characters Maximum length: 255 characters The value can be: <ul style="list-style-type: none"> • OK • WARN • ERROR |
| error_code | String | The returned error code. Minimum length: 0 characters Maximum length: 255 characters |
| error_or_warn | String | The error or warning. Minimum length: 0 characters Maximum length: 255 characters |
| error_params | String | The parameters that failed the check. Minimum length: 0 characters Maximum length: 255 characters |

Example Request

This example queries the information about the source server with ID **211d7878-d7ba-4cac-acf1-a02ccfb8xxxx**.

```
GET https://{endpoint}/v3/sources/211d7878-d7ba-4cac-acf1-a02ccfb8xxxx
```

Example Response

Status code: 200

OK

```
{
  "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "ip": "192.168.0.154",
  "name": "sms-win16",
  "hostname": "sms-win16",
  "add_date": 1598435769000,
  "os_type": "WINDOWS",
  "os_version": "WINDOWS2016_64BIT",
  "oem_system": false,
  "state": "initialize",
  "connected": true,
  "firmware": "BIOS",
  "cpu_quantity": 1,
  "memory": 2146553856,
  "current_task": {
    "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "name": "MigrationTask",
    "type": "MIGRATE_BLOCK",
    "state": "RUNNING",
    "speed_limit": 0,
    "start_target_server": true,
    "vm_template_id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "region_id": "region_id",
    "project_name": "project_name",
    "project_id": "xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx00000001",
    "target_server": {
      "vm_id": "",
      "name": ""
    }
  },
  "log_collect_status": "INIT",
  "exist_server": false,
  "use_public_ip": true,
  "clone_server": null
},
{
  "disks": [ {
    "name": "Disk 0",
    "relation_name": null,
    "partition_style": "MBR",
    "size": 42949672960,
    "used_size": 42947575808,
    "device_use": "BOOT",
    "os_disk": false,
    "physical_volumes": [ {
      "uuid": "\\|\\|\\|?\\|\\|\\|Volume{586b7157-0000-0000-0000-100000000000}\\|\\|",
      "index": 1,
      "name": "(Reserved)",
      "device_use": "BOOT",
      "file_system": "NTFS",
      "mount_point": null,
      "size": 524288000,
      "used_size": 410275840
    }
  ]
}
}
```

```
"uuid" : "\\?\\Volume{586b7157-0000-0000-0000-501f00000000}\\",
"index" : 2,
"name" : "C:\\",
"device_use" : "OS",
"file_system" : "NTFS",
"mount_point" : null,
"size" : 42423287808,
"used_size" : 23170301952
} ]
} ],
"volume_groups" : [ ],
"networks" : [ {
  "name" : null,
  "ip" : null,
  "netmask" : null,
  "gateway" : null,
  "mtu" : 0,
  "mac" : "dac20cd4f6318ca6458673b0046ddcc89e936df292d0806cb868ba63a817853c"
} ],
"checks" : [ {
  "id" : 524146,
  "params" : [ "" ],
  "name" : "OS_VERSION",
  "result" : "OK",
  "error_code" : null,
  "error_or_warn" : null,
  "error_params" : ""
}, {
  "id" : 524147,
  "params" : [ "" ],
  "name" : "FIRMWARE",
  "result" : "OK",
  "error_code" : null,
  "error_or_warn" : null,
  "error_params" : ""
}, {
  "id" : 524148,
  "params" : [ "" ],
  "name" : "CPU",
  "result" : "OK",
  "error_code" : null,
  "error_or_warn" : null,
  "error_params" : ""
}, {
  "id" : 524149,
  "params" : [ "" ],
  "name" : "MEMORY",
  "result" : "OK",
  "error_code" : null,
  "error_or_warn" : null,
  "error_params" : ""
}, {
  "id" : 524150,
  "params" : [ "" ],
  "name" : "SYSTEM_ROOT",
  "result" : "OK",
  "error_code" : null,
  "error_or_warn" : null,
  "error_params" : ""
}, {
  "id" : 524151,
  "params" : [ "" ],
  "name" : "PARTITION_STYLE",
  "result" : "OK",
  "error_code" : null,
  "error_or_warn" : null,
  "error_params" : ""
}, {
  "id" : 524152,
```

```

"params" : [ "" ],
"name" : "FILE_SYSTEM",
"result" : "OK",
"error_code" : null,
"error_or_warn" : null,
"error_params" : ""
}, {
  "id" : 524153,
  "params" : [ "" ],
  "name" : "FREE_SPACE",
  "result" : "OK",
  "error_code" : null,
  "error_or_warn" : null,
  "error_params" : ""
}, {
  "id" : 524154,
  "params" : [ "" ],
  "name" : "OEM_SYSTEM",
  "result" : "OK",
  "error_code" : null,
  "error_or_warn" : null,
  "error_params" : ""
}, {
  "id" : 524155,
  "params" : [ "" ],
  "name" : "DRIVER_FILE",
  "result" : "OK",
  "error_code" : null,
  "error_or_warn" : null,
  "error_params" : ""
}, {
  "id" : 524156,
  "params" : [ "" ],
  "name" : "SERVICE",
  "result" : "OK",
  "error_code" : null,
  "error_or_warn" : null,
  "error_params" : ""
}, {
  "id" : 524157,
  "params" : [ "" ],
  "name" : "ACCOUNT_RIGHTS",
  "result" : "OK",
  "error_code" : null,
  "error_or_warn" : null,
  "error_params" : ""
} ],
"init_target_server" : {
  "disks" : [ {
    "name" : "Disk 0",
    "size" : 42949672960,
    "used_size" : 42947575808,
    "device_use" : "OS",
    "physical_volumes" : [ {
      "uuid" : "\\?\\Volume{586b7157-0000-0000-0000-100000000000}\\",
      "index" : 1,
      "name" : "(Reserved)",
      "device_use" : "BOOT",
      "file_system" : "NTFS",
      "mount_point" : null,
      "size" : 524288000,
      "used_size" : 410275840
    }, {
      "uuid" : "\\?\\Volume{586b7157-0000-0000-0000-501f00000000}\\",
      "index" : 2,
      "name" : "C:\\",
      "device_use" : "OS",
      "file_system" : "NTFS",
      "mount_point" : null,

```

```

    "size" : 42423287808,
    "used_size" : 23170301952
  } ]
} ],
"volume_groups" : [ ]
},
"replicatesize" : 0,
"stage_action_time" : 1598435768945,
"totalsize" : 0,
"last_visit_time" : 1598435801422,
"agent_version" : "6.1.8",
"migration_cycle" : "replicating",
"state_action_time" : 1598435783569
}

```

Status Codes

| Status Code | Description |
|-------------|--------------------|
| 200 | Response returned. |

Error Codes

For details, see [Error Codes](#).

5.3.9 Obtaining Source Server Overview

Function

Obtaining Source Server Overview

Calling Method

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

URI

GET /v3/sources/overview

Request

Table 5-70 Request header parameter

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| X-Auth-Token | Yes | String | The user token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header). Minimum length: 1 character Maximum length: 16,384 characters |

Response

Status code: 200

Table 5-71 Response body parameters

| Parameter | Type | Description |
|-------------|---------|--|
| waiting | Integer | The number of servers that are in waiting status. Minimum value: 0 Maximum value: 1000 |
| replicating | Integer | The number of servers that are in replicating status. Minimum value: 0 Maximum value: 1000 |
| syncing | Integer | The number of servers that are in synchronizing status. Minimum value: 0 Maximum value: 1000 |
| other | Integer | The number of servers in other statuses. Minimum value: 0 Maximum value: 1000 |

Example Request

Query the overview of servers.

```
GET https://{endpoint}/v3/sources/overview
```

Example Response

Status code: 200

OK

```
{
  "waiting" : 5,
  "replicating" : 6,
  "syncing" : 3,
  "other" : 2
}
```


Status Codes

| Status Code | Description |
|-------------|--------------------|
| 200 | Response returned. |

Error Codes

For details, see [Error Codes](#).

5.3.10 Updating Disk Information

Function

This API is used to update the disk information of a source server. After you call this API successfully, the new disk information will take effect, and the original disk information will be deleted.

Calling Method

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

URI

PUT /v3/sources/{source_id}/diskinfo

Table 5-72 Path parameter

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|---|
| source_id | Yes | String | The source server ID. Minimum length: 0 characters Maximum length: 255 characters |

Request

Table 5-73 Request header parameter

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| X-Auth-Token | Yes | String | The user token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header). Minimum length: 1 character Maximum length: 16,384 characters |

Table 5-74 Request body parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|---|---|
| disks | No | Array of ServerDisk objects | The updated disk information. Array length: 0 to 65,535 characters |
| volumegroups | No | Array of VolumeGroups objects | The updated volume information. Array length: 0 to 65,535 characters |
| btrfs_list | No | Array of BtrfsFilesystem objects | The updated Btrfs information. Array length: 0 to 65,535 characters |

Table 5-75 ServerDisk field description

| Parameter | Mandatory | Type | Description |
|-----------------|-----------|--------|--|
| name | Yes | String | The disk name. Minimum length: 0 characters Maximum length: 255 characters |
| partition_style | No | String | The disk partition type. This parameter is mandatory for source server registration. The value can be: <ul style="list-style-type: none"> • MBR • GPT |

| Parameter | Mandatory | Type | Description |
|------------------|-----------|--|--|
| device_use | Yes | String | The disk function. The value can be: <ul style="list-style-type: none"> • BOOT • OS |
| size | Yes | Long | The disk size, in bytes. Minimum value: 0 Maximum value: 9223372036854775807 |
| used_size | Yes | Long | The used disk space, in bytes. Minimum value: 0 Maximum value: 9223372036854775807 |
| physical_volumes | Yes | Array of PhysicalVolume objects | The physical partition information of the disk. Array length: 0 to 65,535 characters |
| os_disk | No | Boolean | Specifies whether the disk is the system disk. |
| relation_name | No | String | The name of the corresponding disk on the target server running Linux. Minimum length: 0 characters Maximum length: 255 characters |
| inode_size | No | Integer | The number of inodes. Minimum value: 0 Maximum value: 2147483647 |

Table 5-76 PhysicalVolume

| Parameter | Mandatory | Type | Description |
|------------|-----------|--------|---|
| device_use | No | String | The partition function. The value can be NORMAL , BOOT , or OS . Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Mandatory | Type | Description |
|-------------|-----------|---------|---|
| file_system | No | String | The file system type. Minimum length: 0 characters Maximum length: 255 characters |
| index | No | Integer | The serial number of the volume. Minimum value: 0 Maximum value: 2147483647 |
| mount_point | No | String | The mount point. Minimum length: 0 characters Maximum length: 255 characters |
| name | No | String | The volume name. In Windows, it indicates the drive letter, and in Linux, it indicates the device ID. Minimum length: 0 characters Maximum length: 255 characters |
| size | No | Long | The size. Minimum value: 0 Maximum value: 9223372036854775807 |
| used_size | No | Long | The used space. Minimum value: 0 Maximum value: 9223372036854775807 |
| inode_size | No | Integer | The number of inodes. Minimum value: 0 Maximum value: 2147483647 |
| inode_nums | No | Long | The number of inodes. Minimum value: 0 Maximum value: 9223372036854775807 |

| Parameter | Mandatory | Type | Description |
|------------------|-----------|---------|---|
| uuid | No | String | The GUID, which can be obtained from the source server. Minimum length: 0 characters Maximum length: 255 characters |
| size_per_cluster | No | Integer | The size of each cluster. Minimum value: 0 Maximum value: 2147483647 |

Table 5-77 VolumeGroups field description

| Parameter | Mandatory | Type | Description |
|-----------------|-----------|--|--|
| components | No | String | The physical volume information. Minimum length: 0 characters Maximum length: 255 characters |
| free_size | No | Long | The available space. Minimum value: 0 Maximum value: 9223372036854775807 |
| logical_volumes | No | Array of LogicalVolumes objects | The logical volume information. Array length: 0 to 255 characters |
| name | No | String | The name. Minimum length: 0 characters Maximum length: 255 characters |
| size | No | Long | The size. Minimum value: 0 Maximum value: 9223372036854775807 |

Table 5-78 LogicalVolumes field description

| Parameter | Mandatory | Type | Description |
|-------------|-----------|---------|---|
| block_count | No | Integer | The number of blocks. Minimum value: 0 Maximum value: 2147483647 Default: 0 |
| block_size | No | Long | The block size. Minimum value: 0 Maximum value: 1048576 Default value: 0 |
| file_system | Yes | String | The file system. Minimum length: 0 characters Maximum length: 255 characters |
| inode_size | Yes | Integer | The number of inodes. Minimum value: 0 Maximum value: 2147483647 |
| inode_nums | No | Long | The number of inodes. Minimum value: 0 Maximum value: 9223372036854775807 |
| device_use | No | String | The partition function. The value can be NORMAL , BOOT , or OS . Minimum length: 0 characters Maximum length: 255 characters |
| mount_point | Yes | String | The mount point. Minimum length: 0 characters Maximum length: 256 characters |
| name | Yes | String | The name. Minimum length: 0 characters Maximum length: 1,024 characters |
| size | Yes | Long | The size. Minimum value: 0 Maximum value: 9223372036854775807 |

| Parameter | Mandatory | Type | Description |
|-----------|-----------|------|---|
| used_size | Yes | Long | The used space. Minimum value: 0 Maximum value: 9223372036854775807 |
| free_size | Yes | Long | The available space. Minimum value: 0 Maximum value: 9223372036854775807 |

Table 5-79 BtrfsFileSystem field description

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| name | Yes | String | The file system name. Minimum length: 0 characters Maximum length: 255 characters |
| label | Yes | String | The file system tag. If no tag exists, the value is an empty string. Minimum length: 0 characters Maximum length: 255 characters |
| The UUID. | Yes | String | The UUID of the file system. Minimum length: 0 characters Maximum length: 255 characters |
| device | Yes | String | The device name in the Btrfs. Minimum length: 0 characters Maximum length: 255 characters |
| size | Yes | Long | The space occupied by the file system. Minimum value: 0 Maximum value: 9223372036854775807 |
| nodesize | Yes | Long | The size of the Btrfs node. Minimum value: 0 Maximum value: 9223372036854775807 |

| Parameter | Mandatory | Type | Description |
|---------------------|-----------|---------|---|
| sectorsize | Yes | Integer | The sector size. Minimum value: 0 Maximum value: 2147483647 |
| data_profile | Yes | String | The data profile (RAD). Minimum length: 0 characters Maximum length: 255 characters |
| system_profile | Yes | String | The file system profile (RAD). Minimum length: 0 characters Maximum length: 255 characters |
| metadata_profile | Yes | String | The metadata profile (RAD). Minimum length: 0 characters Maximum length: 255 characters |
| global_reserve1 | Yes | String | The Btrfs file system information. Minimum length: 0 characters Maximum length: 255 characters |
| g_vol_used_size | Yes | Long | The used space of the Btrfs volume. Minimum value: 0 Maximum value: 9223372036854775807 |
| default_subvol_id | Yes | String | The ID of the default subvolume. Minimum length: 0 characters Maximum length: 255 characters |
| default_subvol_name | Yes | String | The name of the default subvolume. Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Mandatory | Type | Description |
|--------------------------|-----------|--|---|
| default_subvol_mountpath | Yes | String | The mount path of the default subvolume or Btrfs file system. Minimum length: 0 characters Maximum length: 255 characters |
| subvolume | Yes | Array of BtrfsSubvolumn objects | The subvolume information. Array length: 0 to 65,535 characters |

Table 5-80 BtrfsSubvolumn field description

| Parameter | Mandatory | Type | Description |
|-------------------|-----------|--------|--|
| The UUID. | Yes | String | The UUID of the parent volume. Minimum length: 0 characters Maximum length: 255 characters |
| is_snapshot | Yes | String | Specifies whether the subvolume is a snapshot. Minimum length: 0 characters Maximum length: 255 characters |
| subvol_id | Yes | String | The subvolume ID. Minimum length: 0 characters Maximum length: 255 characters |
| parent_id | Yes | String | The parent volume ID. Minimum length: 0 characters Maximum length: 255 characters |
| subvol_name | Yes | String | The subvolume name. Minimum length: 0 characters Maximum length: 255 characters |
| subvol_mount_path | Yes | String | The mount path of the subvolume. Minimum length: 0 characters Maximum length: 255 characters |

Response

None

Example Request

This example updates the original disk information of the server to the new disk information. The new disk name is /dev/vda, the disk function is BOOT, and the disk size is 42949672960 bytes.

```
PUT https://{endpoint}/v3/sources/{source_id}/diskinfo
```

```
{
  "disks": [ {
    "name": "/dev/vda",
    "device_use": "BOOT",
    "size": 42949672960,
    "partition_style": "MBR",
    "used_size": 42948624384,
    "physical_volumes": [ {
      "name": "/dev/vda1",
      "size": 2153775104,
      "device_use": "NORMAL",
      "used_size": 2153775104,
      "inode_size": 0,
      "file_system": "swap",
      "mount_point": ""
    }, {
      "name": "/dev/vda2",
      "size": 16862150656,
      "device_use": "BTRFS",
      "used_size": 16862150656,
      "inode_size": 0,
      "file_system": "btrfs",
      "mount_point": ""
    }, {
      "name": "/dev/vda3",
      "size": 23932698624,
      "device_use": "NORMAL",
      "used_size": 33988608,
      "inode_size": 0,
      "file_system": "xfs",
      "mount_point": "/home"
    }
  ]
}, {
  "name": "/dev/vdb",
  "device_use": "NORMAL",
  "size": 21474836480,
  "partition_style": "MBR",
  "used_size": 21473787904,
  "physical_volumes": [ {
    "name": "/dev/vdb1",
    "size": 21473787904,
    "device_use": "VOLUME_GROUP",
    "used_size": 21473787904,
    "inode_size": 0,
    "file_system": "LVM2_member",
    "mount_point": ""
  }
]
}, {
  "name": "/dev/vdc",
  "device_use": "VOLUME_GROUP",
  "size": 21474836480,
  "partition_style": "MBR",
  "used_size": 0,
  "physical_volumes": [ ]
}
],
```

```

"volumegroups" : [ {
  "name" : "vg1",
  "size" : 42948624384,
  "components" : "/dev/vdb1;/dev/vdc",
  "logical_volumes" : [ {
    "name" : "/dev/mapper/vg1-lv1",
    "device_use" : "NORMAL",
    "size" : 10737418240,
    "free_size" : 10713837568,
    "used_size" : 23580672,
    "file_system" : "ext4",
    "mount_point" : "/mnt/lv1",
    "inode_size" : 256
  } ]
} ],
"btrfs_list" : [ {
  "name" : "/dev/vda2",
  "label" : "none",
  "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "device" : "/dev/vda2",
  "size" : "3.30GiB",
  "nodesize" : 16384,
  "sectorsize" : 4096,
  "data_profile" : "single",
  "system_profile" : "single",
  "metadata_profile" : "single",
  "global_reserve1" : "single",
  "g_vol_used_size" : 3894038528,
  "default_subvolid" : 259,
  "default_subvol_name" : "@/.snapshots/1/snapshot",
  "default_subvol_mountpath" : "/",
  "subvolumn" : [ {
    "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "is_snapshot" : false,
    "subvol_id" : 257,
    "parent_id" : 5,
    "subvol_name" : "@",
    "subvol_mount_path" : null
  }, {
    "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "is_snapshot" : false,
    "subvol_id" : 258,
    "parent_id" : 257,
    "subvol_name" : "@/.snapshots",
    "subvol_mount_path" : "/.snapshots"
  }, {
    "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "is_snapshot" : true,
    "subvol_id" : 259,
    "parent_id" : 258,
    "subvol_name" : "@/.snapshots/1/snapshot",
    "subvol_mount_path" : "/"
  }, {
    "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "is_snapshot" : false,
    "subvol_id" : 260,
    "parent_id" : 257,
    "subvol_name" : "@/boot/grub2/i386-pc",
    "subvol_mount_path" : "/boot/grub2/i386-pc"
  }, {
    "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "is_snapshot" : false,
    "subvol_id" : 261,
    "parent_id" : 257,
    "subvol_name" : "@/boot/grub2/x86_64-efi",
    "subvol_mount_path" : "/boot/grub2/x86_64-efi"
  }, {
    "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "is_snapshot" : false,

```

```

"subvol_id" : 262,
"parent_id" : 257,
"subvol_name" : "@/opt",
"subvol_mount_path" : "/opt"
}, {
"uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
"is_snapshot" : false,
"subvol_id" : 263,
"parent_id" : 257,
"subvol_name" : "@/srv",
"subvol_mount_path" : "/srv"
}, {
"uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
"is_snapshot" : false,
"subvol_id" : 264,
"parent_id" : 257,
"subvol_name" : "@/tmp",
"subvol_mount_path" : "/tmp"
}, {
"uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
"is_snapshot" : false,
"subvol_id" : 265,
"parent_id" : 257,
"subvol_name" : "@/usr/local",
"subvol_mount_path" : "/usr/local"
}, {
"uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
"is_snapshot" : false,
"subvol_id" : 266,
"parent_id" : 257,
"subvol_name" : "@/var/cache",
"subvol_mount_path" : "/var/cache"
}, {
"uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
"is_snapshot" : false,
"subvol_id" : 267,
"parent_id" : 257,
"subvol_name" : "@/var/crash",
"subvol_mount_path" : "/var/crash"
}, {
"uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
"is_snapshot" : false,
"subvol_id" : 268,
"parent_id" : 257,
"subvol_name" : "@/var/lib/libvirt/images",
"subvol_mount_path" : "/var/lib/libvirt/images"
}, {
"uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
"is_snapshot" : false,
"subvol_id" : 269,
"parent_id" : 257,
"subvol_name" : "@/var/lib/machines",
"subvol_mount_path" : "/var/lib/machines"
}, {
"uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
"is_snapshot" : false,
"subvol_id" : 270,
"parent_id" : 257,
"subvol_name" : "@/var/lib/mailman",
"subvol_mount_path" : "/var/lib/mailman"
}, {
"uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
"is_snapshot" : false,
"subvol_id" : 271,
"parent_id" : 257,
"subvol_name" : "@/var/lib/mariadb",
"subvol_mount_path" : "/var/lib/mariadb"
}, {
"uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",

```

```
"is_snapshot" : false,
"subvol_id" : 272,
"parent_id" : 257,
"subvol_name" : "@/var/lib/mysql",
"subvol_mount_path" : "/var/lib/mysql"
}, {
  "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "is_snapshot" : false,
  "subvol_id" : 273,
  "parent_id" : 257,
  "subvol_name" : "@/var/lib/named",
  "subvol_mount_path" : "/var/lib/named"
}, {
  "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "is_snapshot" : false,
  "subvol_id" : 274,
  "parent_id" : 257,
  "subvol_name" : "@/var/lib/pgsql",
  "subvol_mount_path" : "/var/lib/pgsql"
}, {
  "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "is_snapshot" : false,
  "subvol_id" : 275,
  "parent_id" : 257,
  "subvol_name" : "@/var/log",
  "subvol_mount_path" : "/var/log"
}, {
  "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "is_snapshot" : false,
  "subvol_id" : 276,
  "parent_id" : 257,
  "subvol_name" : "@/var/opt",
  "subvol_mount_path" : "/var/opt"
}, {
  "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "is_snapshot" : false,
  "subvol_id" : 277,
  "parent_id" : 257,
  "subvol_name" : "@/var/spool",
  "subvol_mount_path" : "/var/spool"
}, {
  "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "is_snapshot" : false,
  "subvol_id" : 278,
  "parent_id" : 257,
  "subvol_name" : "@/var/tmp",
  "subvol_mount_path" : "/var/tmp"
}, {
  "uuid" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "is_snapshot" : true,
  "subvol_id" : 282,
  "parent_id" : 258,
  "subvol_name" : "@/.snapshots/2/snapshot",
  "subvol_mount_path" : null
}
}
}
```

Example Response

None

Status Codes

| Status Code | Description |
|-------------|--------------------|
| 200 | Response returned. |

Error Codes

For details, see [Error Codes](#).

5.4 Task Management

5.4.1 Creating a Migration Task

Function

This API is used to create a migration task based on a source server.

Calling Method

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

URI

POST /v3/tasks

Request

Table 5-81 Request header parameter

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| X-Auth-Token | Yes | String | The user token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header). Minimum length: 1 character Maximum length: 16,384 characters |

Table 5-82 Request body parameters

| Parameter | Mandatory | Type | Description |
|---------------------|-----------|----------------------------------|--|
| name | Yes | String | The task name. Minimum length: 0 characters Maximum length: 255 characters |
| type | Yes | String | The task type. The value can be: <ul style="list-style-type: none"> • MIGRATE_FILE • MIGRATE_BLOCK |
| start_target_server | No | Boolean | Whether to start the target server after the migration is complete. Default value: true |
| auto_start | No | Boolean | Whether to automatically start the migration. |
| os_type | Yes | String | The OS type. Minimum length: 0 characters Maximum length: 255 characters |
| source_server | Yes | SourceServerByTask object | The source server information. |
| target_server | Yes | TargetServerByTask object | The target server information. |
| migration_ip | No | String | The IP address used for migration. This parameter is not required if the target server is automatically created. Minimum length: 0 characters Maximum length: 255 characters |
| region_name | Yes | String | The region name. Minimum length: 0 characters Maximum length: 255 characters |
| region_id | Yes | String | The region ID. Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Mandatory | Type | Description |
|---------------------|-----------|---------|---|
| project_name | Yes | String | The project name. Minimum length: 0 characters Maximum length: 255 characters |
| project_id | Yes | String | The project ID. Minimum length: 0 characters Maximum length: 255 characters |
| priority | No | Integer | The migration priority. The default value is 1 . |
| vm_template_id | No | String | The ID of the template used to create the target server automatically. Minimum length: 0 characters Maximum length: 255 characters |
| use_public_ip | No | Boolean | Specifies whether to use a public IP address for migration. Default value: true |
| use_ipv6 | No | Boolean | Whether IPv6 is used. |
| syncing | No | Boolean | Specifies whether to perform a continuous synchronization after the first replication. If this parameter is not specified, the default value false is used. Default value: false |
| exist_server | No | Boolean | Checks whether the service exists. If it does, create the task. |
| start_network_check | No | Boolean | Whether to measure the network performance. |

Table 5-83 SourceServerByTask field description

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|---|
| id | Yes | String | The source server ID. Minimum length: 0 characters Maximum length: 255 characters |

Table 5-84 TargetServerByTask field description

| Parameter | Mandatory | Type | Description |
|---------------|-----------|--|---|
| btrfs_list | No | Array of BtrfsFileSystems objects | The Btrfs information, which is obtained from the source server. Array length: 0 to 65,535 characters |
| disks | Yes | Array of TargetDisks objects | The disk information. Array length: 0 to 65,535 characters |
| name | Yes | String | The name. Minimum length: 0 characters Maximum length: 255 characters |
| vm_id | Yes | String | The target server ID. Minimum length: 0 characters Maximum length: 255 characters |
| volume_groups | No | Array of VolumeGroups objects | The volume group information, which is obtained from the source server. Array length: 0 to 65,535 characters |

Table 5-85 BtrfsFileSystem field description

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|---|
| name | Yes | String | The file system name. Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Mandatory | Type | Description |
|------------------|-----------|---------|--|
| label | Yes | String | The file system tag. If no tag exists, the value is an empty string. Minimum length: 0 characters Maximum length: 255 characters |
| The UUID. | Yes | String | The UUID of the file system. Minimum length: 0 characters Maximum length: 255 characters |
| device | Yes | String | The device name in the Btrfs. Minimum length: 0 characters Maximum length: 255 characters |
| size | Yes | Long | The space occupied by the file system. Minimum value: 0 Maximum value: 9223372036854775807 |
| nodesize | Yes | Long | The size of the Btrfs node. Minimum value: 0 Maximum value: 9223372036854775807 |
| sectorsize | Yes | Integer | The sector size. Minimum value: 0 Maximum value: 2147483647 |
| data_profile | Yes | String | The data profile (RAD). Minimum length: 0 characters Maximum length: 255 characters |
| system_profile | Yes | String | The file system profile (RAD). Minimum length: 0 characters Maximum length: 255 characters |
| metadata_profile | Yes | String | The metadata profile (RAD). Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Mandatory | Type | Description |
|------------------------------|-----------|--|---|
| global_reserve 1 | Yes | String | The Btrfs file system information. Minimum length: 0 characters Maximum length: 255 characters |
| g_vol_used_size | Yes | Long | The used space of the Btrfs volume. Minimum value: 0 Maximum value: 9223372036854775807 |
| default_subvol id | Yes | String | The ID of the default subvolume. Minimum length: 0 characters Maximum length: 255 characters |
| default_subvol _name | Yes | String | The name of the default subvolume. Minimum length: 0 characters Maximum length: 255 characters |
| default_subvol _mountpath | Yes | String | The mount path of the default subvolume or Btrfs file system. Minimum length: 0 characters Maximum length: 255 characters |
| subvolume | Yes | Array of BtrfsSubvolumn objects | The subvolume information. Array length: 0 to 65,535 characters |

Table 5-86 BtrfsSubvolumn field description

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| The UUID. | Yes | String | The UUID of the parent volume. Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Mandatory | Type | Description |
|-------------------|-----------|--------|--|
| is_snapshot | Yes | String | Specifies whether the subvolume is a snapshot. Minimum length: 0 characters Maximum length: 255 characters |
| subvol_id | Yes | String | The subvolume ID. Minimum length: 0 characters Maximum length: 255 characters |
| parent_id | Yes | String | The parent volume ID. Minimum length: 0 characters Maximum length: 255 characters |
| subvol_name | Yes | String | The subvolume name. Minimum length: 0 characters Maximum length: 255 characters |
| subvol_mount_path | Yes | String | The mount path of the subvolume. Minimum length: 0 characters Maximum length: 255 characters |

Table 5-87 TargetDisks field description

| Parameter | Mandatory | Type | Description |
|------------|-----------|--------|---|
| device_use | No | String | The disk function. Default value: NORMAL The value can be: <ul style="list-style-type: none"> • NORMAL • OS • BOOT |
| disk_id | No | String | The disk ID. This parameter is not required if the target server is automatically created. Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Mandatory | Type | Description |
|------------------|-----------|---|--|
| name | Yes | String | The disk name. Set this parameter to Disk X based on the disk sequence. Minimum length: 0 characters Maximum length: 255 characters |
| physical_volumes | Yes | Array of PhysicalVolumes objects | The physical volume information. Array length: 0 to 65,535 characters |
| size | Yes | Long | The volume size. Minimum value: 0 Maximum value: 9223372036854775807 |
| used_size | Yes | Long | The used space. Minimum value: 0 Maximum value: 9223372036854775807 |

Table 5-88 PhysicalVolumes field description

| Parameter | Mandatory | Type | Description |
|-------------|-----------|---------|---|
| device_use | No | String | The partition type. The value can be NORMAL , BOOT , or OS . Minimum length: 0 characters Maximum length: 255 characters |
| file_system | No | String | The file system type. Minimum length: 0 characters Maximum length: 255 characters |
| index | No | Integer | The serial number of the volume. Minimum value: 0 Maximum value: 2147483647 |

| Parameter | Mandatory | Type | Description |
|-------------|-----------|--------|---|
| mount_point | No | String | The mount point. Minimum length: 0 characters Maximum length: 255 characters |
| name | No | String | The volume name. In Windows, it indicates the drive letter, and in Linux, it indicates the device ID. Minimum length: 0 characters Maximum length: 255 characters |
| size | No | Long | The volume size. Minimum value: 0 Maximum value: 9223372036854775807 |
| inode_size | No | Long | The number of inodes. Minimum value: 0 Maximum value: 9223372036854775807 |
| used_size | No | Long | The used space. Minimum value: 0 Maximum value: 9223372036854775807 |
| The UUID. | No | String | The GUID of the volume, which can be obtained from the source server. Minimum length: 0 characters Maximum length: 255 characters |

Table 5-89 VolumeGroups field description

| Parameter | Mandatory | Type | Description |
|------------|-----------|--------|--|
| components | No | String | The physical volume information. Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Mandatory | Type | Description |
|-----------------|-----------|--|---|
| free_size | No | Long | The available space. Minimum value: 0 Maximum value: 9223372036854775807 |
| logical_volumes | No | Array of LogicalVolumes objects | The logical volume information. Array length: 0 to 255 characters |
| name | No | String | The name. Minimum length: 0 characters Maximum length: 255 characters |
| size | No | Long | The volume size. Minimum value: 0 Maximum value: 9223372036854775807 |

Table 5-90 LogicalVolumes field description

| Parameter | Mandatory | Type | Description |
|-------------|-----------|---------|---|
| block_count | No | Integer | The number of blocks. Minimum value: 0 Maximum value: 2147483647 Default: 0 |
| block_size | No | Long | The block size. Minimum value: 0 Maximum value: 1048576 Default value: 0 |
| file_system | Yes | String | The file system. Minimum length: 0 characters Maximum length: 255 characters |
| inode_size | Yes | Integer | The number of inodes. Minimum value: 0 Maximum value: 2147483647 |

| Parameter | Mandatory | Type | Description |
|-------------|-----------|--------|---|
| inode_nums | No | Long | The number of inodes. Minimum value: 0 Maximum value: 9223372036854775807 |
| device_use | No | String | The partition type. The value can be NORMAL , BOOT , or OS . Minimum length: 0 characters Maximum length: 255 characters |
| mount_point | Yes | String | The mount point. Minimum length: 0 characters Maximum length: 256 characters |
| name | Yes | String | The name. Minimum length: 0 characters Maximum length: 1,024 characters |
| size | Yes | Long | The volume size. Minimum value: 0 Maximum value: 9223372036854775807 |
| used_size | Yes | Long | The used space. Minimum value: 0 Maximum value: 9223372036854775807 |
| free_size | Yes | Long | The available space. Minimum value: 0 Maximum value: 9223372036854775807 |

Response

Status code: 200

Table 5-91 Response body parameters

| Parameter | Type | Description |
|-----------|--------|---|
| id | String | The task ID returned when the task is created successfully. Minimum length: 0 characters Maximum length: 255 characters |

Example Request

This example creates a migration task whose name is **MigrationTask**. The migration type is **MIGRATE_FILE**, the source server runs Linux, the migration uses the public network, the migration region name is **region_name**, and the migration region ID is **region_id**.

```
POST https://{endpoint}/v3/tasks
{
  "name": "MigrationTask",
  "type": "MIGRATE_FILE",
  "os_type": "LINUX",
  "start_target_server": true,
  "use_public_ip": true,
  "migration_ip": "192.168.0.1",
  "region_name": "region_name",
  "region_id": "region_id",
  "project_name": "project_name",
  "project_id": "xxxxxxxxxxxxxxxxxxxxxxxx00000001",
  "source_server": {
    "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001"
  },
  "target_server": {
    "vm_id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "name": "Auto-tar-name",
    "disks": [ {
      "name": "/dev/vda",
      "disk_id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      "size": 42949672960,
      "used_size": 429496,
      "device_use": "BOOT",
      "physical_volumes": [ {
        "uuid": null,
        "index": 0,
        "name": "/dev/vda1",
        "device_use": "OS",
        "file_system": "ext4",
        "mount_point": "/",
        "size": 42947575808,
        "used_size": 5346484224
      } ]
    } ],
    "volume_groups": [ ]
  }
}
```

Example Response

Status code: 200

OK

```
{
  "id" : "xxxxxxxxxxxxxxxxxxxxxxxx00000001"
}
```

Status Codes

| Status Code | Description |
|-------------|--------------------|
| 200 | Response returned. |

Error Codes

For details, see [Error Codes](#).

5.4.2 Listing Migration Tasks

Function

After the target server is configured for a source server, SMS automatically creates a migration task. This API is used to list all your migration tasks.

Calling Method

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

URI

GET /v3/tasks

Table 5-92 Query parameters

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| state | No | String | The migration task status. The value can be: <ul style="list-style-type: none"> • READY • RUNNING • SYNCING • MIGRATE_SUCCESS • MIGRATE_FAIL • ABORTING • ABORT • DELETING • SYNC_F_ROLLBACKING • SYNC_F_ROLLBACK_SUCCESS |

| Parameter | Mandatory | Type | Description |
|-----------------------|-----------|---------|---|
| name | No | String | The task name. Minimum length: 0 characters Maximum length: 255 characters |
| id | No | String | The task ID. Minimum length: 0 characters Maximum length: 255 characters |
| source_server_id | No | String | The source server ID. Minimum length: 0 characters Maximum length: 255 characters |
| limit | No | Integer | The number of tasks recorded on each page. Minimum value: 0 Maximum value: 200 Default value: 100 |
| offset | No | Integer | The offset. Minimum value: 0 Maximum value: 65535 Default value: 0 |
| enterprise_project_id | No | String | The ID of the enterprise project to be queried. Minimum length: 0 characters Maximum length: 255 characters |

Request

Table 5-93 Request header parameter

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| X-Auth-Token | Yes | String | The user token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header). Minimum length: 1 character Maximum length: 16,384 characters |

Response

Status code: 200

Table 5-94 Response body parameters

| Parameter | Type | Description |
|-----------|---|--|
| count | Integer | The number of tasks that meet the search criteria, which is not affected by pagination. Minimum value: 0 Maximum value: 2147483647 |
| tasks | Array of TasksResponseBody objects | The information about the queried tasks. Array length: 0 to 65,535 characters |

Table 5-95 **TasksResponseBody** field description

| Parameter | Type | Description |
|-----------|--------|---|
| id | String | The migration task ID. Minimum length: 0 characters Maximum length: 255 characters |
| name | String | The task name, which is defined by the user. Minimum length: 0 characters Maximum length: 255 characters |
| type | String | The task type. This parameter is mandatory for creating a task and optional for updating a task. Minimum length: 0 characters Maximum length: 255 characters The value can be: <ul style="list-style-type: none"> ● MIGRATE_FILE ● MIGRATE_BLOCK |

| Parameter | Type | Description |
|------------------------|---------|--|
| os_type | String | The OS type. This parameter is mandatory for creating a task and optional for updating a task. Minimum length: 0 characters Maximum length: 255 characters The value can be: <ul style="list-style-type: none"> • WINDOWS • LINUX |
| state | String | The task status. Minimum length: 0 characters Maximum length: 255 characters |
| estimate_complete_time | Long | The estimated completion time. Minimum value: 0 Maximum value: 9223372036854775807 |
| create_date | Long | The task creation time. Minimum value: 0 Maximum value: 9223372036854775807 |
| priority | Integer | The migration process priority. Minimum value: 0 Maximum value: 2 The value can be: <ul style="list-style-type: none"> • 0 • 1 • 2 |
| speed_limit | Integer | The migration rate limit. Minimum value: 0 Maximum value: 65535 |
| migrate_speed | Double | The migration rate, in MB/s. Minimum value: 0 Maximum value: 10000 |
| compress_rate | Double | The compression rate. Minimum value: 0 Maximum value: 10000 |
| start_target_server | Boolean | Specifies whether to start the target server after the migration is complete. The value can be true (start) or false (stop). Default value: false |

| Parameter | Type | Description |
|-----------------------|--|--|
| error_json | String | The error message. Minimum length: 0 characters Maximum length: 1,024 characters |
| total_time | Long | The task duration. Minimum value: 0 Maximum value: 9223372036854775807 |
| migration_ip | String | The IP address of the target server. If you use a public network for migration, enter the EIP bound to the target server. If you use a private line for migration, enter a private IP address of the target server. Minimum length: 0 characters Maximum length: 255 characters |
| sub_tasks | Array of SubTaskAssociatedWithTask objects | The information about subtasks associated with the migration task Array length: 0 to 65,535 characters |
| source_server | SourceServerAssociatedWithTask object | The information about the source server associated with the migration task. |
| enterprise_project_id | String | The migration project ID. Minimum length: 0 characters Maximum length: 255 characters |
| target_server | TargetServerAssociatedWithTask object | The information about the target server in the migration task. |
| log_collect_status | String | The log collection status. The value can be: <ul style="list-style-type: none"> • INIT • TELL_AGENT_TO_COLLECT • WAIT_AGENT_COLLECT_ACK • AGENT_COLLECT_FAIL • AGENT_COLLECT_SUCCESS • WAIT_SERVER_COLLECT • SERVER_COLLECT_FAIL • SERVER_COLLECT_SUCCESS • TELL_AGENT_RESET_ACL • WAIT_AGENT_RESET_ACL_ACK |

| Parameter | Type | Description |
|--------------------|---|--|
| clone_server | CloneServerBrief object | The information about the cloned server. |
| syncing | Boolean | Whether to enable synchronization. |
| network_check_info | NetworkCheckInfoRequestBody object | The network performance metrics and measurement results. |
| special_config | Array of ConfigBody objects | The configuration information of advanced migration options. |

Table 5-96 SubTaskAssociatedWithTask field description

| Parameter | Type | Description |
|---------------|---------|--|
| id | Long | The subtask ID. Minimum value: 0 Maximum value: 9223372036854775807 |
| name | String | The subtask name. Minimum length: 0 characters Maximum length: 255 characters |
| progress | Integer | The progress of the subtask. The value is an integer ranging from 0 to 100. Minimum value: 0 Maximum value: 100 |
| start_date | Long | The start time of the subtask. Minimum value: 0 Maximum value: 9223372036854775807 |
| end_date | Long | The end time of the subtask. If the subtask is not complete, this parameter is left blank. Minimum value: 0 Maximum value: 9223372036854775807 |
| process_trace | String | Detailed progress of the migration or synchronization Minimum length: 0 characters Maximum length: 2,048 characters |

Table 5-97 SourceServerAssociatedWithTask field description

| Parameter | Type | Description |
|------------|---------|---|
| id | String | The ID of the source server in the SMS database. Minimum length: 0 characters Maximum length: 255 characters |
| ip | String | The IP address of the source server. This parameter is mandatory for registering the source server with SMS and optional for updating the information about the source server. Minimum length: 0 characters Maximum length: 255 characters |
| name | String | The name of the source server displayed on the SMS console. Minimum length: 0 characters Maximum length: 255 characters |
| os_type | String | The OS type of the source server. This parameter is mandatory for registering the source server with SMS and optional for updating the information about the source server. Minimum length: 0 characters Maximum length: 255 characters The value can be: <ul style="list-style-type: none"> • WINDOWS • LINUX |
| os_version | String | The OS version. This parameter is mandatory for registration and optional for update. Minimum length: 0 characters Maximum length: 255 characters |
| oem_system | Boolean | Specifies whether the OS is an OEM OS (Windows). |

| Parameter | Type | Description |
|-----------|--------|--|
| state | String | <p>The source server status.</p> <p>The value can be:</p> <ul style="list-style-type: none"> ● unavailable ● waiting ● initialize ● replicate ● syncing ● stopping ● stopped ● deleting ● error ● cloning ● testing ● finished |

Table 5-98 TargetServerAssociatedWithTask field description

| Parameter | Type | Description |
|-----------|--------|---|
| id | String | <p>The ID of the target server in the SMS database.</p> <p>Minimum length: 0 characters Maximum length: 255 characters</p> |
| vm_id | String | <p>The ID of the target server.</p> <p>Minimum length: 0 characters Maximum length: 255 characters</p> |
| name | String | <p>The name of the target server.</p> <p>Minimum length: 0 characters Maximum length: 255 characters</p> |
| ip | String | <p>The IP address of the target server.</p> <p>Minimum length: 0 characters Maximum length: 255 characters</p> |
| os_type | String | <p>The OS type of the target server.</p> <p>Minimum length: 0 characters Maximum length: 255 characters</p> <p>The value can be:</p> <ul style="list-style-type: none"> ● WINDOWS ● LINUX |

| Parameter | Type | Description |
|------------|--------|---|
| os_version | String | The OS version. Minimum length: 0 characters Maximum length: 255 characters |

Table 5-99 CloneServerBrief field description

| Parameter | Type | Description |
|-----------|--------|--|
| vm_id | String | The cloned server ID. Minimum length: 0 characters Maximum length: 255 characters |
| name | String | The name of the cloned server. Minimum length: 0 characters Maximum length: 255 characters |

Table 5-100 NetworkCheckInfoRequestBody field description

| Parameter | Type | Description |
|--------------------------|---------|--|
| domain_connectivity | Boolean | The connectivity to domain names. |
| destination_connectivity | Boolean | The connectivity to the target server. |
| network_delay | Double | The network latency. Minimum value: 0 Maximum value: 10000.0 |
| network_jitter | Double | The network jitter. Minimum value: 0 Maximum value: 10000 |
| migration_speed | Double | The bandwidth. Minimum value: 0 Maximum value: 10000 |
| loss_percentage | Double | The packet loss rate. Minimum value: 0 Maximum value: 100 |

| Parameter | Type | Description |
|-------------------|--------|--|
| cpu_usage | Double | The CPU usage. Minimum value: 0 Maximum value: 100 |
| mem_usage | Double | The memory usage. Minimum value: 0 Maximum value: 100 |
| evaluation_result | String | The network evaluation result. Minimum length: 6 characters Maximum length: 8 characters |

Table 5-101 ConfigBody field description

| Parameter | Type | Description |
|---------------|--------|---|
| config_key | String | The advanced migration option. The value can be EXCLUDE_MIGRATE_PATH , SYNC_EXCLUDE_PATH , or ONLY_SYNC_PATH . Minimum length: 0 characters Maximum length: 255 characters |
| config_value | String | The value specified for the advanced migration option. It is stored in the database and parsed on the Agent. Minimum length: 0 characters Maximum length: 1,024 characters |
| config_status | String | The reserved field that describes the configuration status. Minimum length: 0 characters Maximum length: 255 characters |

Example Request

This example lists all migration tasks.

```
GET https://{endpoint}/v3/tasks
```

Example Response

Status code: 200

The list of migration tasks is returned.

```
{
  "count" : 3,
```

```

"tasks": [ {
  "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "name": "sms_task_lxxxx11",
  "type": "MIGRATE_FILE",
  "os_type": "LINUX",
  "state": "MIGRATE_SUCCESS",
  "estimate_complete_time": null,
  "create_date": 1585139506000,
  "priority": 1,
  "speed_limit": 0,
  "migrate_speed": 0.0,
  "start_target_server": true,
  "error_json": "",
  "total_time": 3878000,
  "migration_ip": "",
  "source_server": {
    "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "ip": "192.168.*.107",
    "name": "xxx-linux-1",
    "os_type": "LINUX",
    "os_version": "CENTOS_7_6_64BIT",
    "oem_system": false,
    "state": "AVAILABLE"
  },
  "target_server": {
    "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "vm_id": "",
    "name": "",
    "ip": null,
    "os_type": "LINUX",
    "os_version": null
  },
  "log_collect_status": "INIT"
}, {
  "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "name": "sms_task_xxx22",
  "type": "MIGRATE_BLOCK",
  "os_type": "WINDOWS",
  "state": "MIGRATE_SUCCESS",
  "estimate_complete_time": null,
  "create_date": 1585138569000,
  "priority": 1,
  "speed_limit": 0,
  "migrate_speed": 0.0,
  "start_target_server": true,
  "error_json": "",
  "total_time": 10824000,
  "migration_ip": "",
  "source_server": {
    "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "ip": "192.168.*.245",
    "name": "xxx-windows-2",
    "os_type": "WINDOWS",
    "os_version": "WINDOWS2012_R2_64BIT",
    "oem_system": false,
    "state": "AVAILABLE"
  },
  "target_server": {
    "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "vm_id": "",
    "name": "",
    "ip": null,
    "os_type": "WINDOWS",
    "os_version": "WINDOWS2012_R2_64BIT"
  },
  "log_collect_status": "INIT"
}, {
  "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "name": "sms_task_leddesktop",

```

```
"type" : "MIGRATE_BLOCK",
"os_type" : "WINDOWS",
"state" : "MIGRATE_SUCCESS",
"estimate_complete_time" : null,
"create_date" : 1566130392000,
"priority" : 1,
"speed_limit" : 200,
"migrate_speed" : 0.0,
"start_target_server" : true,
"error_json" : "",
"total_time" : 882000,
"migration_ip" : "192.168.1.201",
"source_server" : null,
"target_server" : {
  "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "vm_id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "name" : "xxx-sms-target",
  "ip" : null,
  "os_type" : "WINDOWS",
  "os_version" : "WINDOWS2008_R2_64BIT"
},
"log_collect_status" : "INIT"
}]
}
```

Status Codes

| Status Code | Description |
|-------------|--------------------|
| 200 | Response returned. |

Error Codes

For details, see [Error Codes](#).

5.4.3 Batch Deleting Migration Tasks

Function

This API is used to delete multiple migration tasks in a batch.

Constraints

You can delete a migration task when the Agent installed on the source server is disconnected from SMS, or the task status is **Verification failed**, **Ready for next**, **Finished**, **Error**, or **Paused**.

Calling Method

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

URI

POST /v3/tasks/delete

Request

Table 5-102 Request header parameter

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| X-Auth-Token | Yes | String | The user token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header). Minimum length: 1 character Maximum length: 16,384 characters |

Table 5-103 Request body parameters

| Parameter | Mandatory | Type | Description |
|-----------|-----------|------------------|---|
| ids | Yes | Array of strings | The IDs of the tasks to be deleted. Minimum length: 0 characters Maximum length: 255 characters Array length: 0 to 65,535 characters |

Response

None

Example Request

This example deletes migration tasks with IDs **1**, **2**, and **3** in a batch.

```
POST https://{endpoint}/v3/tasks/delete
```

```
{
  "ids" : [ "1", "2", "3" ]
}
```

Example Response

None

Status Codes

| Status Code | Description |
|-------------|--------------------|
| 200 | Response returned. |

Error Codes

For details, see [Error Codes](#).

5.4.4 Deleting a Migration Task

Function

This API is used to delete a migration task with a specified ID.

Constraints

You can delete a migration task when the Agent installed on the source server is disconnected from SMS, or the task status is **Verification failed**, **Ready for next**, **Finished**, **Error**, or **Paused**.

Calling Method

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

URI

DELETE /v3/tasks/{task_id}

Table 5-104 Path parameter

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|---|
| task_id | Yes | String | The ID of the migration task to be deleted. Minimum length: 0 characters Maximum length: 255 characters |

Request

Table 5-105 Request header parameter

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| X-Auth-Token | Yes | String | The user token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header). Minimum length: 1 character Maximum length: 16,384 characters |

Response

None

Example Request

Delete the migration task whose ID is **7a9a9540-ff28-4869-b9e4-855fbe12xxxx**.

```
DELETE https://{endpoint}/v3/tasks/7a9a9540-ff28-4869-b9e4-855fbe12xxxx
```

Example Response

None

Status Codes

| Status Code | Description |
|-------------|--------------------|
| 200 | Response returned. |

Error Codes

For details, see [Error Codes](#).

5.4.5 Querying Details About a Migration Task

Function

This API is used to query a migration task based on a specified ID.

Calling Method

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

URI

GET /v3/tasks/{task_id}

Table 5-106 Path parameter

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| task_id | Yes | String | The migration task ID. Minimum length: 0 characters Maximum length: 255 characters |

Request

Table 5-107 Request header parameter

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| X-Auth-Token | No | String | The user token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header). Minimum length: 1 character Maximum length: 16,384 characters |

Response

Status code: 200

Table 5-108 Response body parameters

| Parameter | Type | Description |
|-----------|--------|--|
| name | String | The task name, which is defined by the user. Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Type | Description |
|-------------|---------|---|
| type | String | The task type. This parameter is mandatory for creating a task and optional for updating a task. Minimum length: 0 characters Maximum length: 255 characters The value can be: <ul style="list-style-type: none"> • MIGRATE_FILE • MIGRATE_BLOCK |
| os_type | String | The OS type. This parameter is mandatory for creating a task and optional for updating a task. The value can be: <ul style="list-style-type: none"> • WINDOWS • LINUX |
| id | String | The migration task ID. Minimum length: 0 characters Maximum length: 255 characters |
| priority | Integer | The migration process priority. 0 : low 1 : standard (default) 2 : high Minimum value: 0 Maximum value: 2 The value can be: <ul style="list-style-type: none"> • 0 • 1 • 2 |
| speed_limit | Integer | The migration rate limit. Minimum value: 0 Maximum value: 65535 |
| region_id | String | The ID of the region where the target server is located. Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Type | Description |
|-----------------------|------------------------------------|--|
| start_target_server | Boolean | Specifies whether to start the target server after the migration. true : indicates that the target server will be launched after the migration. false : indicates that the target server will be stopped after the migration. Default value: true |
| enterprise_project_id | String | The enterprise project ID. Minimum length: 1 character Maximum length: 255 characters |
| migration_ip | String | The IP address of the target server. If you use a public network for migration, enter the EIP bound to the target server. Enter the private IP address the target server if the migration network type is Private . Minimum length: 0 characters Maximum length: 255 characters |
| region_name | String | The name of the region where the target server is located. Minimum length: 0 characters Maximum length: 255 characters |
| project_name | String | The name of the project to which the target server belongs. Minimum length: 0 characters Maximum length: 255 characters |
| project_id | String | The ID of the project to which the target server belongs. Minimum length: 0 characters Maximum length: 255 characters |
| vm_template_id | String | The template ID. Minimum length: 0 characters Maximum length: 255 characters |
| source_server | SourceServerResponse object | The source server information returned. |
| target_server | TaskTargetServer object | The information about the target server in the migration task. |

| Parameter | Type | Description |
|------------------------|---------|--|
| state | String | The task status. Minimum length: 0 characters Maximum length: 255 characters |
| estimate_complete_time | Long | The estimated completion time. Minimum value: 0 Maximum value: 9223372036854775807 |
| connected | Boolean | The connection status. |
| create_date | Long | The task creation time. Minimum value: 0 Maximum value: 9223372036854775807 |
| start_date | Long | The task start time. Minimum value: 0 Maximum value: 9223372036854775807 |
| finish_date | Long | The task end time. Minimum value: 0 Maximum value: 9223372036854775807 |
| migrate_speed | Double | The migration rate, in MB/s. Minimum value: 0 Maximum value: 10000 |
| compress_rate | Double | The compression rate. Minimum value: 0 Maximum value: 10000 |
| error_json | String | The error message. Minimum length: 0 characters Maximum length: 1,024 characters |
| total_time | Long | The task duration. Minimum value: 0 Maximum value: 9223372036854775807 |
| float_ip | String | Retain this parameter temporarily to ensure the compatibility with the SMS-Agent of the earlier version. Minimum length: 0 characters Maximum length: 255 characters |
| remain_seconds | Long | The remaining migration time in seconds. Minimum value: 0 Maximum value: 9223372036854775807 |

| Parameter | Type | Description |
|--------------------|--|--|
| target_snapshot_id | String | The ID of the snapshot of the target server. Minimum length: 0 characters Maximum length: 255 characters |
| clone_server | CloneServer object | The information about the cloned server. |
| sub_tasks | Array of SubTask objects | The list of subtasks contained in the migration task. Array length: 0 to 65,535 characters |
| network_check_info | NetworkCheckInfoRequestBody object | The network performance metrics and measurement results. |

Table 5-109 SourceServerResponse field description

| Parameter | Type | Description |
|-----------|--------|--|
| id | String | The ID of the source server in the SMS database. Minimum length: 0 characters Maximum length: 255 characters |
| ip | String | The IP address of the source server. This parameter is mandatory for registering the source server with SMS and optional for updating the information about the source server. Minimum length: 0 characters Maximum length: 255 characters |
| name | String | The name of the source server displayed on the SMS console. Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Type | Description |
|------------|---------|--|
| os_type | String | <p>The OS type of the source server. This parameter is mandatory for registering the source server with SMS and optional for updating the information about the source server.</p> <p>Minimum length: 0 characters Maximum length: 255 characters</p> <p>The value can be:</p> <ul style="list-style-type: none"> ● WINDOWS ● LINUX |
| os_version | String | <p>The OS version. This parameter is mandatory for registration and optional for update.</p> <p>Minimum length: 0 characters Maximum length: 255 characters</p> |
| oem_system | Boolean | <p>Indicates whether the OS is an OEM OS (Windows).</p> |
| state | String | <p>The source server status.</p> <p>The value can be:</p> <ul style="list-style-type: none"> ● unavailable ● waiting ● initialize ● replicate ● syncing ● stopping ● stopped ● deleting ● error ● cloning ● testing ● finished |

| Parameter | Type | Description |
|-----------------|--------|---|
| migration_cycle | String | <p>The current migration stage of the source server.</p> <p>Minimum length: 0 characters Maximum length: 255 characters</p> <p>The value can be:</p> <ul style="list-style-type: none"> • cutovering • cutovered • checking • setting • replicating • syncing |

Table 5-110 TaskTargetServer field description

| Parameter | Type | Description |
|-----------|--------|---|
| id | String | <p>The ID of the target server in the SMS database.</p> <p>Minimum length: 0 characters Maximum length: 255 characters</p> |
| vm_id | String | <p>The ID of the target server. This parameter is not required for automatically created target servers.</p> <p>Minimum length: 0 characters Maximum length: 255 characters</p> |
| name | String | <p>The name of the target server.</p> <p>Minimum length: 0 characters Maximum length: 255 characters</p> |
| ip | String | <p>The IP address of the target server.</p> <p>Minimum length: 0 characters Maximum length: 255 characters</p> |

| Parameter | Type | Description |
|----------------|---|---|
| os_type | String | The OS type of the source server. This parameter is mandatory for registering the source server with SMS and optional for updating the information about the source server. Minimum length: 0 characters Maximum length: 255 characters The value can be: <ul style="list-style-type: none"> • WINDOWS • LINUX |
| os_version | String | The OS version. This parameter is mandatory for registration and optional for update. Minimum length: 0 characters Maximum length: 255 characters |
| system_dir | String | The system directory. This parameter is mandatory for Windows. Minimum length: 0 characters Maximum length: 255 characters |
| disks | Array of TargetDisk objects | The disk information of the target server, which is generally the same as that of the source server. Array length: 0 to 65,535 characters |
| volume_group_s | Array of VolumeGroups objects | The logical volume information of the target server, which is generally the same as that on the source server. Array length: 0 to 65,535 characters |
| btrfs_list | Array of strings | The information about Btrfs file systems on the source server. This parameter is mandatory for Linux. If there are no Btrfs file systems on the source server, the value is an empty array []. Minimum length: 0 characters Maximum length: 255 characters Array length: 0 to 65,535 characters |
| image_disk_id | String | The ID of the disk where the agent image resides on the target server. Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Type | Description |
|------------------------|--------|--|
| cutovered_snapshot_ids | String | The ID of the snapshot of the target server, which is used for rollback. Minimum length: 0 characters Maximum length: 255 characters |

Table 5-111 TargetDisk field description

| Parameter | Type | Description |
|------------------|--|--|
| id | Long | The disk ID. Minimum value: 0 Maximum value: 9223372036854775807 |
| device_use | String | The partition function. Default value: NORMAL The value can be: <ul style="list-style-type: none"> • NORMAL • OS • BOOT |
| disk_id | String | The disk ID. Minimum length: 0 characters Maximum length: 255 characters |
| name | String | The disk name. Minimum length: 0 characters Maximum length: 255 characters |
| physical_volumes | Array of TargetPhysicalVolumes objects | The logical volume information. Array length: 0 to 65,535 characters |
| size | Long | The size. Minimum value: 0 Maximum value: 9223372036854775807 |
| used_size | Long | The used space. Minimum value: 0 Maximum value: 9223372036854775807 |
| disk_index | String | The disk index. Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Type | Description |
|-----------------|---------|--|
| os_disk | Boolean | Indicates whether the disk is the system disk. |
| partition_style | String | The disk partition type. This parameter is mandatory for source server registration. The value can be: <ul style="list-style-type: none"> • MBR • GPT |
| relation_name | String | The name of the corresponding disk on the target server running Linux. Minimum length: 0 characters Maximum length: 255 characters |

Table 5-112 TargetPhysicalVolumes field description

| Parameter | Type | Description |
|-------------|---------|--|
| id | Long | The logical volume ID. Minimum value: 0 Maximum value: 9223372036854775807 |
| device_use | String | The partition function. Default value: NORMAL The value can be: <ul style="list-style-type: none"> • NORMAL • OS • BOOT |
| file_system | String | The file system. Minimum length: 0 characters Maximum length: 255 characters |
| index | Integer | The volume ID. Minimum value: 0 Maximum value: 2147483647 |
| mount_point | String | The mount point. Minimum length: 0 characters Maximum length: 255 characters |
| name | String | The name. Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Type | Description |
|---------------|--------|--|
| size | Long | The size. Minimum value: 0 Maximum value: 9223372036854775807 |
| used_size | Long | The used space. Minimum value: 0 Maximum value: 9223372036854775807 |
| The UUID. | String | The UUID. Minimum length: 0 characters Maximum length: 255 characters |
| relation_name | String | The name of the corresponding disk on the target server running Linux. Minimum length: 0 characters Maximum length: 255 characters |
| free_size | Long | The idle partition space. Minimum value: 0 Maximum value: 9223372036854775807 |

Table 5-113 VolumeGroups field description

| Parameter | Type | Description |
|-----------------|--|--|
| components | String | The physical volume information. Minimum length: 0 characters Maximum length: 255 characters |
| free_size | Long | The available space. Minimum value: 0 Maximum value: 9223372036854775807 |
| logical_volumes | Array of LogicalVolumes objects | The logical volume information. Array length: 0 to 255 characters |
| name | String | The name. Minimum length: 0 characters Maximum length: 255 characters |
| size | Long | The size. Minimum value: 0 Maximum value: 9223372036854775807 |

Table 5-114 LogicalVolumes field description

| Parameter | Type | Description |
|-------------|---------|---|
| block_count | Integer | The number of blocks. Minimum value: 0 Maximum value: 2147483647 Default: 0 |
| block_size | Long | The block size. Minimum value: 0 Maximum value: 1048576 Default value: 0 |
| file_system | String | The file system. Minimum length: 0 characters Maximum length: 255 characters |
| inode_size | Integer | The number of inodes. Minimum value: 0 Maximum value: 2147483647 |
| inode_nums | Long | The number of inodes. Minimum value: 0 Maximum value: 9223372036854775807 |
| device_use | String | The partition type. The value can be NORMAL , BOOT , or OS . Minimum length: 0 characters Maximum length: 255 characters |
| mount_point | String | The mount point. Minimum length: 0 characters Maximum length: 256 characters |
| name | String | The name. Minimum length: 0 characters Maximum length: 1,024 characters |
| size | Long | The size. Minimum value: 0 Maximum value: 9223372036854775807 |
| used_size | Long | The used space. Minimum value: 0 Maximum value: 9223372036854775807 |

| Parameter | Type | Description |
|-----------|------|--|
| free_size | Long | The available space. Minimum value: 0 Maximum value: 9223372036854775807 |

Table 5-115 CloneServer field description

| Parameter | Type | Description |
|-------------|--------|---|
| vm_id | String | The cloned server ID. Minimum length: 0 characters Maximum length: 255 characters |
| name | String | The name of the cloned server. Minimum length: 0 characters Maximum length: 255 characters |
| clone_error | String | The error message returned for a clone failure. Minimum length: 0 characters Maximum length: 255 characters |
| clone_state | String | The cloning status. Minimum length: 0 characters Maximum length: 255 characters |
| error_msg | String | The error message returned for a clone failure. Minimum length: 0 characters Maximum length: 1,024 characters |

Table 5-116 SubTask field description

| Parameter | Type | Description |
|-----------|--------|---|
| id | Long | The subtask ID. Minimum value: 0 Maximum value: 9223372036854775807 |
| name | String | The subtask name. Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Type | Description |
|---------------|---------|--|
| progress | Integer | The progress of the subtask. The value is an integer ranging from 0 to 100. Minimum value: 0 Maximum value: 100 |
| start_date | Long | The start time of the subtask. Minimum value: 0 Maximum value: 9223372036854775807 |
| end_date | Long | The end time of the subtask. If the subtask is not complete, this parameter is left blank. Minimum value: 0 Maximum value: 9223372036854775807 |
| migrate_speed | Double | The migration speed in Mbit/s. Minimum value: 0 Maximum value: 10000 |
| user_op | String | The user operation that triggers the subtask. Minimum length: 0 characters Maximum length: 50 characters |
| process_trace | String | Detailed progress of the migration or synchronization Minimum length: 0 characters Maximum length: 2,048 characters |

Table 5-117 NetworkCheckInfoRequestBody field description

| Parameter | Type | Description |
|--------------------------|---------|--|
| domain_connectivity | Boolean | The connectivity to domain names. |
| destination_connectivity | Boolean | The connectivity to the target server. |
| network_delay | Double | The network latency. Minimum value: 0 Maximum value: 10000.0 |
| network_jitter | Double | The network jitter. Minimum value: 0 Maximum value: 10000 |

| Parameter | Type | Description |
|-------------------|--------|--|
| migration_speed | Double | The bandwidth. Minimum value: 0 Maximum value: 10000 |
| loss_percentage | Double | The packet loss rate. Minimum value: 0 Maximum value: 100 |
| cpu_usage | Double | The CPU usage. Minimum value: 0 Maximum value: 100 |
| mem_usage | Double | The memory usage. Minimum value: 0 Maximum value: 100 |
| evaluation_result | String | The network evaluation result. Minimum length: 6 characters Maximum length: 8 characters |

Example Request

Query a migration task with a specified ID.

GET https://{endpoint}/v3/tasks/ef3b9722-07a0-40ae-89b0-889ee96dfc56

Example Response

Status code: 200

OK

```
{
  "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "name": "MigrationTask",
  "type": "MIGRATE_BLOCK",
  "os_type": "WINDOWS",
  "state": "RUNNING",
  "estimate_complete_time": null,
  "create_date": 1598435778000,
  "start_date": 1598435784000,
  "finish_date": null,
  "priority": 1,
  "speed_limit": 0,
  "migrate_speed": 0.0,
  "start_target_server": true,
  "error_json": "",
  "total_time": 115,
  "float_ip": null,
  "migration_ip": null,
  "vm_template_id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "region_name": "region name",
  "region_id": "region id",
  "project_name": "project name",
}
```

```
"project_id" : "xxxxxxxxxxxxxxxxxxxxxxxx00000001",
"sub_tasks" : [ {
  "id" : 7278,
  "name" : "CREATE_CLOUD_SERVER",
  "progress" : 0,
  "start_date" : 1598435802000,
  "end_date" : null,
  "user_op" : "REPLICATE",
  "process_trace" : null
}, {
  "id" : 7279,
  "name" : "SSL_CONFIG",
  "progress" : 0,
  "start_date" : null,
  "end_date" : null,
  "user_op" : "REPLICATE",
  "process_trace" : null
}, {
  "id" : 7280,
  "name" : "ATTACH_AGENT_IMAGE",
  "progress" : 0,
  "start_date" : null,
  "end_date" : null,
  "user_op" : "REPLICATE",
  "process_trace" : null
}, {
  "id" : 7281,
  "name" : "FORMAT_DISK_WINDOWS",
  "progress" : 0,
  "start_date" : null,
  "end_date" : null,
  "user_op" : "REPLICATE",
  "process_trace" : null
}, {
  "id" : 7282,
  "name" : "MIGRATE_WINDOWS_BLOCK",
  "progress" : 0,
  "start_date" : null,
  "end_date" : null,
  "user_op" : "REPLICATE",
  "process_trace" : null
} ],
"source_server" : {
  "id" : "xxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "ip" : "192.168.0.154",
  "name" : "name-win16",
  "os_type" : "WINDOWS",
  "os_version" : "WINDOWS2016_64BIT",
  "oem_system" : false,
  "state" : "initialize",
  "migration_cycle" : "replicating"
},
"target_server" : {
  "id" : "xxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "vm_id" : "",
  "name" : "",
  "ip" : null,
  "os_type" : "WINDOWS",
  "os_version" : "WINDOWS2016_64BIT",
  "system_dir" : "Y:\\Windows\\System32",
  "disks" : [ {
    "id" : 88008,
    "name" : "Disk 1",
    "relation_name" : null,
    "disk_id" : "0",
    "partition_style" : "MBR",
    "size" : 42949672960,
    "used_size" : 42947575808,
    "device_use" : "OS",
```



```

"os_disk" : true,
"physical_volumes" : [ {
  "id" : 135055,
  "uuid" : "\\?\\Volume{586b7157-0000-0000-0000-100000000000}\\",
  "index" : 1,
  "name" : "Z:",
  "relation_name" : null,
  "device_use" : "BOOT",
  "file_system" : "NTFS",
  "mount_point" : null,
  "size" : 524288000,
  "used_size" : 410275840,
  "free_size" : 114012160
}, {
  "id" : 135056,
  "uuid" : "\\?\\Volume{586b7157-0000-0000-0000-501f00000000}\\",
  "index" : 2,
  "name" : "Y:",
  "relation_name" : null,
  "device_use" : "OS",
  "file_system" : "NTFS",
  "mount_point" : null,
  "size" : 42423287808,
  "used_size" : 23170301952,
  "free_size" : 19252985856
}],
"disk_index" : "0"
}],
"volume_groups" : [ ],
"image_disk_id" : null,
"cutovered_snapshot_ids" : null
},
"clone_server" : null
}

```

Status Codes

| Status Code | Description |
|-------------|--------------------|
| 200 | Response returned. |

Error Codes

For details, see [Error Codes](#).

5.4.6 Updating a Migration Task

Function

This API is used to update a migration task by ID.

Calling Method

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

URI

PUT /v3/tasks/{task_id}

Table 5-118 Path parameters

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| task_id | Yes | String | The migration task ID. Minimum length: 0 characters Maximum length: 255 characters |

Request

Table 5-119 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| X-Auth-Token | No | String | The user token. The token can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token. Minimum length: 1 character Maximum length: 16,384 characters |

Table 5-120 Request body parameters

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|---|
| name | No | String | The task name, which is defined by the user. Minimum length: 0 characters Maximum length: 255 characters |
| type | No | String | The task type. This parameter is mandatory for creating a task and optional for updating a task. Minimum length: 0 characters Maximum length: 255 characters The value can be: <ul style="list-style-type: none"> • MIGRATE_FILE • MIGRATE_BLOCK |

| Parameter | Mandatory | Type | Description |
|-----------------------|-----------|---------|---|
| os_type | No | String | The OS type. This parameter is mandatory for creating a task and optional for updating a task. The value can be: <ul style="list-style-type: none"> • WINDOWS • LINUX |
| id | No | String | The migration task ID. Minimum length: 0 characters Maximum length: 255 characters |
| priority | No | Integer | The migration process priority. 0 : low 1 : standard (default) 2 : high Minimum value: 0 Maximum value: 2 The value can be: <ul style="list-style-type: none"> • 0 • 1 • 2 |
| region_id | No | String | The ID of the region where the target server is located. Minimum length: 0 characters Maximum length: 255 characters |
| start_target_server | No | Boolean | Indicates whether to start the target server after the migration is complete. true : indicates that the target server will be launched after the migration is complete. false : indicates that the target server will be stopped after the migration is complete. Default value: true |
| enterprise_project_id | No | String | The enterprise project ID. Minimum length: 1 character Maximum length: 255 characters |

| Parameter | Mandatory | Type | Description |
|----------------|-----------|---------|---|
| exist_server | No | Boolean | Whether to use an existing server as the target server. true indicates that the target server is available. false indicates that the target server is not available. |
| migration_ip | No | String | The IP address of the target server. If you use a public network for migration, enter the EIP bound to the target server. If you use a private line for migration, enter the private IP address of the target server. Minimum length: 0 characters Maximum length: 255 characters |
| region_name | No | String | The name of the region where the target server is located. Minimum length: 0 characters Maximum length: 255 characters |
| speed_limit | No | Integer | The migration rate limit, in Mbit/s. Minimum value: 0 Maximum value: 10000 |
| project_name | No | String | The name of the project to which the target server belongs. Minimum length: 0 characters Maximum length: 255 characters |
| project_id | No | String | The ID of the project to which the target server belongs. Minimum length: 0 characters Maximum length: 255 characters |
| vm_template_id | No | String | The template ID. Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Mandatory | Type | Description |
|--------------------------|-----------|---|--|
| source_server | No | PostSourceServerBody object | The information about the source server in the migration task. |
| target_server | No | TargetServer object | The information about the target server in the migration task. |
| state | No | String | The task status. Minimum length: 0 characters Maximum length: 255 characters |
| estimate_completion_time | No | Long | The estimated completion time. Minimum value: 0 Maximum value: 9223372036854775807 |
| connected | No | Boolean | The connection status. |
| create_date | No | Long | The task creation time. Minimum value: 0 Maximum value: 9223372036854775807 |
| start_date | No | Long | The task start time. Minimum value: 0 Maximum value: 9223372036854775807 |
| finish_date | No | Long | The task end time. Minimum value: 0 Maximum value: 9223372036854775807 |
| migrate_speed | No | Double | The migration rate, in MB/s. Minimum value: 0 Maximum value: 10000 |
| error_json | No | String | The error message. Minimum length: 0 characters Maximum length: 1,024 characters |

| Parameter | Mandatory | Type | Description |
|--------------------|-----------|---------------------------------|--|
| total_time | No | Long | The migration time elapsed. Minimum value: 0 Maximum value: 9223372036854775807 |
| float_ip | No | String | Retain this parameter temporarily to ensure the compatibility with the SMS-Agent of the earlier version. Minimum length: 0 characters Maximum length: 255 characters |
| remain_seconds | No | Long | The remaining migration time, in seconds. Minimum value: 0 Maximum value: 9223372036854775807 |
| target_snapshot_id | No | String | The ID of the snapshot for the target server. Minimum length: 0 characters Maximum length: 255 characters |
| clone_server | No | CloneServer object | The information about the cloned server. |
| sub_tasks | No | Array of SubTask objects | The list of subtasks included in the migration task. Array length: 0 to 65,535 characters |

Table 5-121 PostSourceServerBody field description

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| id | No | String | The ID of the target server in the SMS database. Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|---|
| ip | No | String | The IP address of the source server. This parameter is mandatory for registering the source server with SMS and optional for updating the information about the source server. Minimum length: 0 characters Maximum length: 255 characters |
| name | No | String | The name of the source server displayed on the SMS console. Minimum length: 0 characters Maximum length: 255 characters |
| hostname | No | String | The hostname of the source server. This parameter is mandatory for registering the source server with SMS and optional for updating the information about the source server. Minimum length: 0 characters Maximum length: 255 characters |
| os_type | No | String | The OS type of the source server. This parameter is mandatory for registering the source server with SMS and optional for updating the information about the source server. Minimum length: 0 characters Maximum length: 255 characters The value can be: <ul style="list-style-type: none"> ● WINDOWS ● LINUX |

| Parameter | Mandatory | Type | Description |
|---------------------|-----------|---|---|
| os_version | No | String | The OS version. This parameter is mandatory for registration and optional for update. Minimum length: 0 characters Maximum length: 255 characters |
| virtualization_type | No | String | The OS virtualization type. Minimum length: 0 characters Maximum length: 255 characters |
| linux_block_check | No | String | The Linux block-level check. Minimum length: 0 characters Maximum length: 255 characters |
| firmware | No | String | The boot mode of the source server. Minimum length: 0 characters Maximum length: 255 characters The value can be: <ul style="list-style-type: none"> • BIOS • UEFI |
| cpu_quantity | No | Integer | The number of vCPUs. Minimum value: 0 Maximum value: 65535 |
| memory | No | Long | The memory size, in MB. Minimum value: 0 Maximum value: 9223372036854775807 |
| disks | No | Array of ServerDisk objects | The disk information of the source server. Array length: 0 to 65,535 characters |

| Parameter | Mandatory | Type | Description |
|--------------------|-----------|---|--|
| btrfs_list | No | Array of BtrfsFileSystem objects | The information about Btrfs file systems on the source server. This parameter is mandatory for Linux. If there are no Btrfs file systems on the source server, the value is an empty array []. Array length: 0 to 65,535 characters |
| networks | No | Array of NetWork objects | The information about NICs on the source server. Array length: 0 to 65,535 characters |
| domain_id | No | String | The tenant domain ID. Minimum length: 0 characters Maximum length: 255 characters |
| has_rsync | No | Boolean | Indicates whether rsync is installed. This parameter is mandatory for Linux. |
| paravirtualization | No | Boolean | Indicates whether the source server is paravirtualized. This parameter is mandatory for Linux. |
| raw_devices | No | String | The list of raw devices. This parameter is mandatory for Linux. Minimum length: 0 characters Maximum length: 255 characters |
| driver_files | No | Boolean | Indicates whether any driver files are missing. This parameter is mandatory for Windows. |
| system_services | No | Boolean | Indicates whether there are abnormal services. This parameter is mandatory for Windows. |
| account_rights | No | Boolean | Indicates whether the account has the required permissions. This parameter is mandatory for Windows. |

| Parameter | Mandatory | Type | Description |
|-----------------|-----------|--------------------------------------|---|
| boot_loader | No | String | The system boot loader. This parameter is mandatory for Linux. The value can be: <ul style="list-style-type: none"> • GRUB • LILO |
| system_dir | No | String | The system directory. This parameter is mandatory for Windows. Minimum length: 0 characters Maximum length: 255 characters |
| volume_group_s | No | Array of VolumeGroups objects | This parameter is mandatory for Linux. If there are no volume groups, the value is an empty array []. Array length: 0 to 65,535 characters |
| agent_version | No | String | The Agent version. Minimum length: 0 characters Maximum length: 255 characters |
| kernel_version | No | String | The kernel version. Minimum length: 0 characters Maximum length: 255 characters |
| migration_cycle | No | String | The current migration stage of the source server. The value can be: <ul style="list-style-type: none"> • cutovering • cutovered • checking • setting • replicating • syncing |

| Parameter | Mandatory | Type | Description |
|--------------|-----------|---------|--|
| state | No | String | The source server status. Minimum length: 0 characters Maximum length: 255 characters The value can be: <ul style="list-style-type: none"> • unavailable • waiting • initialize • replicate • syncing • stopping • stopped • deleting • error • cloning • cutovering • finished |
| oem_system | No | Boolean | Indicates whether the OS is an OEM version (Windows). |
| start_type | No | String | The startup mode. The value can be MANUAL , MGC , or an empty string (""). The value can be: <ul style="list-style-type: none"> • MANUAL • MGC |
| io_read_wait | No | Double | The disk read latency (in ms). Minimum value: 0.0 Maximum value: 10000.0 |

Table 5-122 ServerDisk

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| name | Yes | String | The disk name. Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Mandatory | Type | Description |
|------------------|-----------|--|--|
| partition_style | No | String | The disk partition type. This parameter is mandatory for source server registration. The value can be: <ul style="list-style-type: none"> • MBR • GPT |
| device_use | Yes | String | The disk function. The value can be: <ul style="list-style-type: none"> • BOOT • OS |
| size | Yes | Long | The disk size, in bytes. Minimum value: 0 Maximum value: 9223372036854775807 |
| used_size | Yes | Long | The used disk space, in bytes. Minimum value: 0 Maximum value: 9223372036854775807 |
| physical_volumes | Yes | Array of PhysicalVolume objects | The physical partition information of the disk. Array length: 0 to 65,535 characters |
| os_disk | No | Boolean | Indicates whether the disk is the system disk. |
| relation_name | No | String | The name of the paired target server disk in Linux. Minimum length: 0 characters Maximum length: 255 characters |
| inode_size | No | Integer | The number of inodes. Minimum value: 0 Maximum value: 2147483647 |

Table 5-123 PhysicalVolume

| Parameter | Mandatory | Type | Description |
|-------------|-----------|---------|---|
| device_use | No | String | The partition type. The value can be NORMAL , BOOT , or OS . Minimum length: 0 characters Maximum length: 255 characters |
| file_system | No | String | The file system type. Minimum length: 0 characters Maximum length: 255 characters |
| index | No | Integer | The serial number of the volume. Minimum value: 0 Maximum value: 2147483647 |
| mount_point | No | String | The mount point. Minimum length: 0 characters Maximum length: 255 characters |
| name | No | String | The volume name. In Windows, it indicates the drive letter, and in Linux, it indicates the device ID. Minimum length: 0 characters Maximum length: 255 characters |
| size | No | Long | The size. Minimum value: 0 Maximum value: 9223372036854775807 |
| used_size | No | Long | The used space. Minimum value: 0 Maximum value: 9223372036854775807 |
| inode_size | No | Integer | The number of inodes. Minimum value: 0 Maximum value: 2147483647 |

| Parameter | Mandatory | Type | Description |
|------------------|-----------|---------|---|
| inode_nums | No | Long | The number of inodes. Minimum value: 0 Maximum value: 9223372036854775807 |
| uuid | No | String | The GUID of the volume, which can be obtained from the source server. Minimum length: 0 characters Maximum length: 255 characters |
| size_per_cluster | No | Integer | The size of each cluster. Minimum value: 0 Maximum value: 2147483647 |

Table 5-124 BtrfsFileSystem field description

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| name | Yes | String | The file system name. Minimum length: 0 characters Maximum length: 255 characters |
| label | Yes | String | The file system tag. If no tag exists, the value is an empty string. Minimum length: 0 characters Maximum length: 255 characters |
| uuid | Yes | String | The UUID of the file system. Minimum length: 0 characters Maximum length: 255 characters |
| device | Yes | String | The names of Btrfs devices. Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Mandatory | Type | Description |
|------------------|-----------|---------|--|
| size | Yes | Long | The space occupied by the file system. Minimum value: 0 Maximum value: 9223372036854775807 |
| nodesize | Yes | Long | The size of the Btrfs node. Minimum value: 0 Maximum value: 9223372036854775807 |
| sectorsize | Yes | Integer | The sector size. Minimum value: 0 Maximum value: 2147483647 |
| data_profile | Yes | String | The data profile (RAD). Minimum length: 0 characters Maximum length: 255 characters |
| system_profile | Yes | String | The file system profile (RAD). Minimum length: 0 characters Maximum length: 255 characters |
| metadata_profile | Yes | String | The metadata profile (RAD). Minimum length: 0 characters Maximum length: 255 characters |
| global_reserve1 | Yes | String | The Btrfs file system information. Minimum length: 0 characters Maximum length: 255 characters |
| g_vol_used_size | Yes | Long | The used space of the Btrfs volume. Minimum value: 0 Maximum value: 9223372036854775807 |
| default_subvolid | Yes | String | The ID of the default subvolume. Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Mandatory | Type | Description |
|------------------------------|-----------|---|---|
| default_subvo l_name | Yes | String | The name of the default subvolume. Minimum length: 0 characters Maximum length: 255 characters |
| default_subvo l_mountpath | Yes | String | The mount path of the default subvolume or Btrfs file system. Minimum length: 0 characters Maximum length: 255 characters |
| subvolumn | Yes | Array of BtrfsSubvolu mn objects | The subvolume information. Array length: 0 to 65,535 characters |

Table 5-125 BtrfsSubvolumn field description

| Parameter | Mandatory | Type | Description |
|-------------|-----------|--------|--|
| uuid | Yes | String | The UUID of the parent volume. Minimum length: 0 characters Maximum length: 255 characters |
| is_snapshot | Yes | String | Indicates whether the subvolume is a snapshot. Minimum length: 0 characters Maximum length: 255 characters |
| subvol_id | Yes | String | The subvolume ID. Minimum length: 0 characters Maximum length: 255 characters |
| parent_id | Yes | String | The parent volume ID. Minimum length: 0 characters Maximum length: 255 characters |
| subvol_name | Yes | String | The subvolume name. Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Mandatory | Type | Description |
|-------------------|-----------|--------|--|
| subvol_mount_path | Yes | String | The mount path of the subvolume. Minimum length: 0 characters Maximum length: 255 characters |

Table 5-126 TargetServer field description

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| id | No | String | The ID of the target server in the SMS database. Minimum length: 0 characters Maximum length: 255 characters |
| ip | Yes | String | The IP address of the source server. This parameter is mandatory for registering the source server with SMS and optional for updating the information about the source server. Minimum length: 0 characters Maximum length: 255 characters |
| name | No | String | The name of the target server. Minimum length: 0 characters Maximum length: 255 characters |
| hostname | No | String | The hostname of the source server. This parameter is mandatory for registering the source server with SMS and optional for updating the information about the source server. Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Mandatory | Type | Description |
|--------------|-----------|------------------------------------|---|
| os_type | Yes | String | <p>The OS type of the source server. This parameter is mandatory for registering the source server with SMS and optional for updating the information about the source server.</p> <p>Minimum length: 0 characters Maximum length: 255 characters</p> <p>The value can be:</p> <ul style="list-style-type: none"> • WINDOWS • LINUX |
| os_version | No | String | <p>The OS version. This parameter is mandatory for registration and optional for update.</p> <p>Minimum length: 0 characters Maximum length: 255 characters</p> |
| firmware | No | String | <p>The boot mode of the source server.</p> <p>Minimum length: 0 characters Maximum length: 255 characters</p> <p>The value can be:</p> <ul style="list-style-type: none"> • BIOS • UEFI |
| cpu_quantity | No | Integer | <p>The number of vCPUs.</p> <p>Minimum value: 0 Maximum value: 65535</p> |
| memory | No | Long | <p>The memory size, in MB.</p> <p>Minimum value: 0 Maximum value: 9223372036854775807</p> |
| disks | Yes | Array of TargetDisk objects | <p>The disk information of the target server, which is generally the same as that of the source server.</p> <p>Array length: 0 to 65,535 characters</p> |

| Parameter | Mandatory | Type | Description |
|--------------------|-----------|---------------------------------|--|
| btrfs_list | No | Array of strings | The information about Btrfs file systems on the source server. This parameter is mandatory for Linux. If there are no Btrfs file systems on the source server, the value is an empty array []. Minimum length: 0 characters Maximum length: 255 characters Array length: 0 to 65,535 characters |
| networks | No | Array of NetWork objects | The information about NICs on the source server. Array length: 0 to 65,535 characters |
| domain_id | No | String | The tenant domain ID. Minimum length: 0 characters Maximum length: 255 characters |
| has_rsync | No | Boolean | Indicates whether rsync is installed. This parameter is mandatory for Linux. |
| paravirtualization | No | Boolean | Indicates whether the source server is paravirtualized. This parameter is mandatory for Linux. |
| raw_devices | No | String | The list of raw devices. This parameter is mandatory for Linux. Minimum length: 0 characters Maximum length: 255 characters |
| driver_files | No | Boolean | Indicates whether any driver files are missing. This parameter is mandatory for Windows. |
| system_services | No | Boolean | Indicates whether there are abnormal services. This parameter is mandatory for Windows. |

| Parameter | Mandatory | Type | Description |
|----------------|-----------|--------------------------------------|--|
| account_rights | No | Boolean | Indicates whether the account has the required permissions. This parameter is mandatory for Windows. |
| boot_loader | No | String | The system boot loader. This parameter is mandatory for Linux. The value can be: <ul style="list-style-type: none"> • GRUB • LILO |
| system_dir | No | String | The system directory. This parameter is mandatory for Windows. Minimum length: 0 characters Maximum length: 255 characters |
| volume_groups | No | Array of VolumeGroups objects | The logical volume information of the target server, which is generally the same as that on the source server. Array length: 0 to 65,535 characters |
| vm_id | No | String | The ID of the target server. This parameter is not required for automatically created target servers. Minimum length: 0 characters Maximum length: 255 characters |
| flavor | No | String | The flavor of the target server. Minimum length: 0 characters Maximum length: 255 characters |
| image_disk_id | No | String | The ID of the disk where the agent image is contained on the target server. Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Mandatory | Type | Description |
|------------------------|-----------|--------|--|
| snapshot_ids | No | String | The ID of the snapshot for the target server. Minimum length: 0 characters Maximum length: 255 characters |
| cutovered_snapshot_ids | No | String | The ID of the snapshot used for rollback on the target server. Minimum length: 0 characters Maximum length: 255 characters |

Table 5-127 TargetDisk field description

| Parameter | Mandatory | Type | Description |
|------------------|-----------|---|--|
| id | No | Long | The disk ID. Minimum value: 0 Maximum value: 9223372036854775807 |
| device_use | No | String | The partition function. Default value: NORMAL The value can be: <ul style="list-style-type: none"> • NORMAL • OS • BOOT |
| disk_id | No | String | The disk ID. Minimum length: 0 characters Maximum length: 255 characters |
| name | No | String | The disk name. Minimum length: 0 characters Maximum length: 255 characters |
| physical_volumes | No | Array of TargetPhysicalVolumes objects | The logical volume information. Array length: 0 to 65,535 characters |

| Parameter | Mandatory | Type | Description |
|-----------------|-----------|---------|--|
| size | No | Long | The size. Minimum value: 0 Maximum value: 9223372036854775807 |
| used_size | No | Long | The used space. Minimum value: 0 Maximum value: 9223372036854775807 |
| disk_index | No | String | The disk index. Minimum length: 0 characters Maximum length: 255 characters |
| os_disk | No | Boolean | Indicates whether the disk is the system disk. |
| partition_style | No | String | The disk partition type. This parameter is mandatory for source server registration. The value can be: <ul style="list-style-type: none"> • MBR • GPT |
| relation_name | No | String | The name of the paired target server disk in Linux. Minimum length: 0 characters Maximum length: 255 characters |

Table 5-128 TargetPhysicalVolumes field description

| Parameter | Mandatory | Type | Description |
|-----------|-----------|------|---|
| id | No | Long | The logical volume ID. Minimum value: 0 Maximum value: 9223372036854775807 |

| Parameter | Mandatory | Type | Description |
|---------------|-----------|---------|--|
| device_use | No | String | The partition function. Default value: NORMAL The value can be: <ul style="list-style-type: none"> • NORMAL • OS • BOOT |
| file_system | No | String | The file system. Minimum length: 0 characters Maximum length: 255 characters |
| index | No | Integer | The serial number. Minimum value: 0 Maximum value: 2147483647 |
| mount_point | No | String | The mount point. Minimum length: 0 characters Maximum length: 255 characters |
| name | No | String | The name. Minimum length: 0 characters Maximum length: 255 characters |
| size | No | Long | The size. Minimum value: 0 Maximum value: 9223372036854775807 |
| used_size | No | Long | The used space. Minimum value: 0 Maximum value: 9223372036854775807 |
| uuid | No | String | uuid Minimum length: 0 characters Maximum length: 255 characters |
| relation_name | No | String | The name of the paired target server disk in Linux. Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Mandatory | Type | Description |
|-----------|-----------|------|---|
| free_size | No | Long | The idle partition space. Minimum value: 0 Maximum value: 9223372036854775807 |

Table 5-129 NetWork field description

| Parameter | Mandatory | Type | Description |
|-----------|-----------|---------|--|
| name | Yes | String | The NIC name. Minimum length: 0 characters Maximum length: 255 characters |
| ip | Yes | String | The IP address bound to the NIC. Minimum length: 0 characters Maximum length: 255 characters |
| netmask | Yes | String | The subnet mask. Minimum length: 0 characters Maximum length: 255 characters |
| gateway | Yes | String | The gateway. Minimum length: 0 characters Maximum length: 255 characters |
| mtu | No | Integer | The NIC MTU. This parameter is mandatory for Linux. Minimum value: 0 Maximum value: 2147483647 |
| mac | Yes | String | The MAC address. Minimum length: 0 characters Maximum length: 255 characters |
| id | No | String | The database ID. Minimum length: 0 characters Maximum length: 255 characters |

Table 5-130 VolumeGroups field description

| Parameter | Mandatory | Type | Description |
|-----------------|-----------|--|--|
| components | No | String | The physical volume information. Minimum length: 0 characters Maximum length: 255 characters |
| free_size | No | Long | The available space. Minimum value: 0 Maximum value: 9223372036854775807 |
| logical_volumes | No | Array of LogicalVolumes objects | The logical volume information. Array length: 0 to 255 characters |
| name | No | String | The name. Minimum length: 0 characters Maximum length: 255 characters |
| size | No | Long | The size. Minimum value: 0 Maximum value: 9223372036854775807 |

Table 5-131 LogicalVolumes field description

| Parameter | Mandatory | Type | Description |
|-------------|-----------|---------|---|
| block_count | No | Integer | The number of blocks. Minimum value: 0 Maximum value: 2147483647 Default: 0 |
| block_size | No | Long | The block size. Minimum value: 0 Maximum value: 1048576 Default: 0 |
| file_system | Yes | String | The file system. Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Mandatory | Type | Description |
|-------------|-----------|---------|---|
| inode_size | Yes | Integer | The number of inodes. Minimum value: 0 Maximum value: 2147483647 |
| inode_nums | No | Long | The number of inodes. Minimum value: 0 Maximum value: 9223372036854775807 |
| device_use | No | String | The partition type. The value can be NORMAL , BOOT , or OS . Minimum length: 0 characters Maximum length: 255 characters |
| mount_point | Yes | String | The mount point. Minimum length: 0 characters Maximum length: 256 characters |
| name | Yes | String | The name. Minimum length: 0 characters Maximum length: 1,024 characters |
| size | Yes | Long | The size. Minimum value: 0 Maximum value: 9223372036854775807 |
| used_size | Yes | Long | The used space. Minimum value: 0 Maximum value: 9223372036854775807 |
| free_size | Yes | Long | The available space. Minimum value: 0 Maximum value: 9223372036854775807 |

Table 5-132 CloneServer field description

| Parameter | Mandatory | Type | Description |
|-------------|-----------|--------|---|
| vm_id | No | String | The cloned server ID. Minimum length: 0 characters Maximum length: 255 characters |
| name | No | String | The name of the cloned server. Minimum length: 0 characters Maximum length: 255 characters |
| clone_error | No | String | The error code returned for a clone failure. Minimum length: 0 characters Maximum length: 255 characters |
| clone_state | No | String | The clone status. Minimum length: 0 characters Maximum length: 255 characters |
| error_msg | No | String | The error message returned for a clone failure. Minimum length: 0 characters Maximum length: 1,024 characters |

Table 5-133 SubTask field description

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|---|
| id | No | Long | The subtask ID. Minimum value: 0 Maximum value: 9223372036854775807 |
| name | No | String | The subtask name. Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Mandatory | Type | Description |
|---------------|-----------|---------|--|
| progress | Yes | Integer | The progress of the subtask. The value is an integer ranging from 0 to 100. Minimum value: 0 Maximum value: 100 |
| start_date | No | Long | The start time of the subtask. Minimum value: 0 Maximum value: 9223372036854775807 |
| end_date | No | Long | The end time of the subtask. If the subtask is not complete, this parameter is left blank. Minimum value: 0 Maximum value: 9223372036854775807 |
| migrate_speed | No | Double | The migration speed, in Mbit/s. Minimum value: 0 Maximum value: 10000 |
| user_op | No | String | The user operation that triggers the subtask. Minimum length: 0 characters Maximum length: 50 characters |
| process_trace | No | String | The detailed progress of the migration or synchronization. Minimum length: 0 characters Maximum length: 2,048 characters |

Response

None

Example Request

This example updates the migration task whose ID is **ef3b9722-07a0-40ae-89b0-889ee96dxxxx**.

```
put https://{endpoint}/v3/tasks/ef3b9722-07a0-40ae-89b0-889ee96dxxxx
{
  "name" : "MigrationTask",
```

```

"type" : "MIGRATE_BLOCK",
"os_type" : "WINDOWS",
"state" : "RUNNING",
"estimate_complete_time" : null,
"create_date" : 1598435778000,
"start_date" : 1598435784000,
"finish_date" : null,
"priority" : 1,
"speed_limit" : 0,
"migrate_speed" : 0.0,
"start_target_server" : true,
"error_json" : "",
"total_time" : 115,
"float_ip" : null,
"migration_ip" : null,
"vm_template_id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
"region_name" : "region name",
"region_id" : "region id",
"project_name" : "project name",
"project_id" : "xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx00000001",
"sub_tasks" : [ {
  "id" : 7278,
  "name" : "CREATE_CLOUD_SERVER",
  "progress" : 0,
  "start_date" : 1598435802000,
  "end_date" : null,
  "user_op" : "REPLICATE"
}, {
  "id" : 7279,
  "name" : "SSL_CONFIG",
  "progress" : 0,
  "start_date" : null,
  "end_date" : null,
  "user_op" : "REPLICATE"
}, {
  "id" : 7280,
  "name" : "ATTACH_AGENT_IMAGE",
  "progress" : 0,
  "start_date" : null,
  "end_date" : null,
  "user_op" : "REPLICATE"
}, {
  "id" : 7281,
  "name" : "FORMAT_DISK_WINDOWS",
  "progress" : 0,
  "start_date" : null,
  "end_date" : null,
  "user_op" : "REPLICATE"
}, {
  "id" : 7282,
  "name" : "MIGRATE_WINDOWS_BLOCK",
  "progress" : 0,
  "start_date" : null,
  "end_date" : null,
  "user_op" : "REPLICATE"
} ],
"source_server" : {
  "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "ip" : "192.168.0.154",
  "name" : "name-win16",
  "os_type" : "WINDOWS",
  "os_version" : "WINDOWS2016_64BIT",
  "agent_version" : "1.2.0",
  "oem_system" : false,
  "state" : "initialize",
  "migration_cycle" : "replicating"
},
"target_server" : {
  "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",

```

```
"vm_id" : "",
"name" : "",
"ip" : null,
"os_type" : "WINDOWS",
"os_version" : "WINDOWS2016_64BIT",
"system_dir" : "Y:\\Windows\\System32",
"disks" : [ {
  "id" : 88008,
  "name" : "Disk 1",
  "relation_name" : null,
  "disk_id" : "0",
  "partition_style" : "MBR",
  "size" : 42949672960,
  "used_size" : 42947575808,
  "device_use" : "OS",
  "os_disk" : true,
  "physical_volumes" : [ {
    "id" : 135055,
    "uuid" : "\\?\\Volume{586b7157-0000-0000-0000-100000000000}\\",
    "index" : 1,
    "name" : "Z:",
    "relation_name" : null,
    "device_use" : "BOOT",
    "file_system" : "NTFS",
    "mount_point" : null,
    "size" : 524288000,
    "used_size" : 410275840,
    "free_size" : 114012160
  }, {
    "id" : 135056,
    "uuid" : "\\?\\Volume{586b7157-0000-0000-0000-501f00000000}\\",
    "index" : 2,
    "name" : "Y:",
    "relation_name" : null,
    "device_use" : "OS",
    "file_system" : "NTFS",
    "mount_point" : null,
    "size" : 42423287808,
    "used_size" : 23170301952,
    "free_size" : 19252985856
  } ],
  "disk_index" : "0"
} ],
"volume_groups" : [ ],
"image_disk_id" : null,
"cutovered_snapshot_ids" : null
},
"clone_server" : null
}
```

Example Response

Status code: 200

OK

```
{
  "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001"
}
```

Status Codes

| Status Code | Description |
|-------------|-------------|
| 200 | OK |

Error Codes

For details, see [Error Codes](#).

5.4.7 Managing Migration Tasks

Function

This API is used for managing migration tasks, including starting, pausing, and synchronizing tasks, uploading logs, and rolling back failed migration tasks.

Calling Method

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

URI

POST /v3/tasks/{task_id}/action

Table 5-134 Path parameter

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| task_id | Yes | String | The migration task ID. Minimum length: 0 characters Maximum length: 255 characters |

Request

Table 5-135 Request header parameter

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| X-Auth-Token | Yes | String | The user token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header). Minimum length: 1 character Maximum length: 16,384 characters |

Table 5-136 Request body parameters

| Parameter | Mandatory | Type | Description |
|---------------------------|-----------|---------|---|
| operation | Yes | String | The operation to be performed on the task. The value can be: <ul style="list-style-type: none"> • start • stop • test • clone_test • restart • network_check |
| template_id | No | String | The template ID. |
| switch_hce | No | Boolean | Indicates whether to change to Huawei Cloud EulerOS. Default value: false |
| is_need_consistency_check | No | Boolean | Whether consistency verification is enabled. Default value: false |

Response

None

Example Request

- To clone the target server in a migration task, a template ID is required. This example clones the target server in the task with ID **7a9a9540-ff28-4869-b9e4-855fbe12xxxx**.

```
POST https://{endpoint}/v3/tasks/7a9a9540-ff28-4869-b9e4-855fbe12xxxx/action
```

```
{
  "operation" : "clone_test",
  "template_id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001"
}
```

- This example launches the target server in a migration task.

```
POST https://{endpoint}/v3/tasks/7a9a9540-ff28-4869-b9e4-855fbe12xxxx/action
```

```
{
  "operation" : "test"
}
```

- This example starts the task whose ID is **7a9a9540-ff28-4869-b9e4-855fbe12xxxx**.

```
POST https://{endpoint}/v3/tasks/7a9a9540-ff28-4869-b9e4-855fbe12xxxx/action
```

```
{
  "operation" : "start"
}
```


- This example pauses the task whose ID is **7a9a9540-ff28-4869-b9e4-855fbe12xxxx**.

```
POST https://{endpoint}/v3/tasks/7a9a9540-ff28-4869-b9e4-855fbe12xxxx/action
{
  "operation" : "stop"
}
```

- This example restarts the task with ID **7a9a9540-ff28-4869-b9e4-855fbe12xxxx**.

```
POST https://{endpoint}/v3/tasks/7a9a9540-ff28-4869-b9e4-855fbe12xxxx/action
{
  "operation" : "restart"
}
```

Example Response

None

Status Codes

| Status Code | Description |
|-------------|--------------------|
| 200 | Response returned. |

Error Codes

For details, see [Error Codes](#).

5.4.8 Reporting Migration Progress and Rate

Function

This API is called by the Agent installed on source servers during migration to report the migration progress and rate to SMS.

You do not need to make calls to this API.

Calling Method

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

URI

PUT /v3/tasks/{task_id}/progress

Table 5-137 Path parameter

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| task_id | Yes | String | The migration task ID. Minimum length: 0 characters Maximum length: 255 characters |

Request

Table 5-138 Request header parameter

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| X-Auth-Token | Yes | String | The user token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header). Minimum length: 1 character Maximum length: 16,384 characters |

Table 5-139 Request body parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|---------|---|
| subtask_name | Yes | String | <p>The name of the subtask for which the Agent reports the progress.</p> <p>Minimum length: 0 characters Maximum length: 255 characters</p> <p>The value can be:</p> <ul style="list-style-type: none"> • CREATE_CLOUD_SERVER • SSL_CONFIG • ATTACH_AGENT_IMAGE • DETTACH_AGENT_IMAGE • FORMAT_DISK_LINUX • FORMAT_DISK_LINUX_FILE • FORMAT_DISK_LINUX_BLOCK • FORMAT_DISK_WINDOWS • MIGRATE_LINUX_FILE • MIGRATE_LINUX_BLOCK • MIGRATE_WINDOWS_BLOCK • CLONE_VM • SYNC_LINUX_FILE • SYNC_LINUX_BLOCK • SYNC_WINDOWS_BLOCK • CONFIGURE_LINUX • CONFIGURE_LINUX_BLOCK • CONFIGURE_LINUX_FILE • CONFIGURE_WINDOWS |
| progress | Yes | Integer | <p>The progress of the subtask, in percentage (%).</p> <p>Minimum value: 0 Maximum value: 100</p> |

| Parameter | Mandatory | Type | Description |
|---------------|-----------|--------|---|
| replicatesize | Yes | Long | The amount of data that has been replicated in the subtask, in bytes. Minimum value: 0 Maximum value: 9223372036854775807 |
| totalsize | Yes | Long | The total amount of data to be migrated in the subtask. Minimum value: 0 Maximum value: 9223372036854775807 |
| process_trace | Yes | String | Detailed progress of the migration or synchronization Minimum length: 0 characters Maximum length: 2,048 characters |
| migrate_speed | No | Double | The migration rate in Mbit/s. Minimum value: 0 Maximum value: 10000 |
| compress_rate | No | Double | The file compression rate. Minimum value: 0 Maximum value: 10000 |
| remain_time | No | Long | The remaining time. Minimum value: 0 Maximum value: 2147483647 |

Response

None

Example Request

This example reports the migration progress of a task. The current subtask name is **ATTACH_AGENT_IMAGE**, the task progress is **100**, and the total size of data migrated in the current task is **10000**.

```
PUT https://{endpoint}/v3/tasks/7a9a9540-ff28-4869-b9e4-855fbc12xxxx/progress
```

```
{
  "subtask_name": "ATTACH_AGENT_IMAGE",
  "progress": 100,
  "replicatesize": 1000,
  "totalsize": 100000,
  "process_trace": ""
}
```

Example Response

None

Status Codes

| Status Code | Description |
|-------------|--------------------|
| 200 | Response returned. |

Error Codes

For details, see [Error Codes](#).

5.4.9 Querying the Migration Rate Limit Rules of a Migration Task

Function

This API is used to query the time segment-based migration rate limiting rules of a migration task.

Calling Method

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

URI

GET /v3/tasks/{task_id}/speed-limit

Table 5-140 Path parameter

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|---|
| task_id | Yes | String | The ID of the task for which you want to query the rate limit rules Minimum length: 0 characters Maximum length: 255 characters |

Request

Table 5-141 Request header parameter

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| X-Auth-Token | Yes | String | The user token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header). Minimum length: 1 character Maximum length: 16,384 characters |

Response

Status code: 200

Table 5-142 Response body parameters

| Parameter | Type | Description |
|-------------|--|---|
| speed_limit | Array of SpeedLimitUson objects | The information about the time segments when the migration rate is limited. Array length: 0 to 65,535 characters |

Table 5-143 SpeedLimitUson field description

| Parameter | Type | Description |
|-----------|---------|---|
| start | String | The start time of a segment. The format is <i>XX:XX</i> . Minimum length: 0 characters Maximum length: 255 characters |
| end | String | The end time of a segment. The format is <i>XX:XX</i> . Minimum length: 0 characters Maximum length: 255 characters |
| speed | Integer | The migration rate during a specified period of time. The value is an integer ranging from 0 to 1000. The unit is Mbit/s. Minimum value: 0 Maximum value: 10000 |

Example Request

Query the migration rate limit rules of the task whose ID is **7a9a9540-ff28-4869-b9e4-855fbe12xxxx**.

```
GET https://{endpoint}/v3/tasks/7a9a9540-ff28-4869-b9e4-855fbe12xxxx/speed-limit
```

Example Response

Status code: 200

OK

```
{
  "speed_limit": [ {
    "start": "00:00",
    "end": "23:59",
    "speed": 0
  } ]
}
```

Status Codes

| Status Code | Description |
|-------------|--------------------|
| 200 | Response returned. |

Error Codes

For details, see [Error Codes](#).

5.4.10 Setting Migration Rate Limit Rules for a Migration Task

Function

This API is used to set migration rate limit rules for a migration task.

Calling Method

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

URI

POST /v3/tasks/{task_id}/speed-limit

Table 5-144 Path parameter

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| task_id | Yes | String | The migration task ID. Minimum length: 0 characters Maximum length: 255 characters |

Request

Table 5-145 Request header parameter

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| X-Auth-Token | Yes | String | The user token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header). Minimum length: 1 character Maximum length: 16,384 characters |

Table 5-146 Request body parameters

| Parameter | Mandatory | Type | Description |
|-------------|-----------|---|---|
| speed_limit | Yes | Array of SpeedLimitUs on objects | The information about the time segments when the migration rate is limited. Array length: 0 to 65,535 characters |

Table 5-147 SpeedLimitUs on field description

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|---|
| start | Yes | String | The start time of a segment. The format is <i>XX:XX</i> . Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Mandatory | Type | Description |
|-----------|-----------|---------|---|
| end | Yes | String | The end time of a segment. The format is <i>XX:XX</i> . Minimum length: 0 characters Maximum length: 255 characters |
| speed | Yes | Integer | The migration rate limit for the specified period of time. The value is an integer ranging from 0 to 1000. The unit is Mbit/s. Minimum value: 0 Maximum value: 10000 |

Response

None

Example Request

- This example limits the migration speed of a migration task to 20 Mbit/s from 0:00 to 8:00, 50 Mbit/s from 8:00 to 15:00, and 25 Mbit/s from 15:00 to 23:59.

POST https://{endpoint}/v3/tasks/7a9a9540-ff28-4869-b9e4-855fbe12xxxx/speed-limit

```
{
  "speed_limit" : [ {
    "start" : "00:00",
    "end" : "23:59",
    "speed" : 0
  } ]
}
```

- This example updates the migration rate limit rules of the task whose ID is **a45a300b-86b5-4b13-8802-52274fa43016**.

POST https://{endpoint}/v3/tasks/a45a300b-86b5-4b13-8802-52274fa43016/speed-limit

```
{
  "speed_limit" : [ {
    "start" : "0:00",
    "end" : "8:00",
    "speed" : 20
  }, {
    "start" : "8:00",
    "end" : "15:00",
    "speed" : 50
  }, {
    "start" : "15:00",
    "end" : "23:59",
    "speed" : 25
  } ]
}
```

Example Response

None

Status Codes

| Status Code | Description |
|-------------|--------------------|
| 200 | Response returned. |

Error Codes

For details, see [Error Codes](#).

5.4.11 Unlocking a Target Server

Function

This API is used to unlock the target server in a migration task.

Calling Method

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

URI

POST /v3/tasks/{task_id}/unlock

Table 5-148 Path parameter

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| task_id | Yes | String | The task ID. Minimum length: 0 characters Maximum length: 255 characters |

Request

Table 5-149 Request header parameter

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| X-Auth-Token | Yes | String | The user token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header). Minimum length: 1 character Maximum length: 16,384 characters |

Response

None

Example Request

This example unlocks the target server in the migration task **7a9a9540-ff28-4869-b9e4-855fbe12xxxx**.

```
POST https://{endpoint}/v3/tasks/7a9a9540-ff28-4869-b9e4-855fbe12xxxx/unlock
```

Example Response

None

Status Codes

| Status Code | Description |
|-------------|--------------------|
| 200 | Response returned. |

Error Codes

For details, see [Error Codes](#).

5.4.12 Checking NICs and Security Groups

Function

This API is used to check whether NICs and security groups of a target server meet the requirements.

Calling Method

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

URI

GET /v3/tasks/{t_project_id}/networkacl/{t_network_id}/check

Table 5-150 Path parameter

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| t_project_id | Yes | String | The ID of the project to which the target server belongs. Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| t_network_id | Yes | String | The ID of the subnet where the target server is located. Minimum length: 0 characters Maximum length: 255 characters |

Table 5-151 Query parameters

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| region_id | Yes | String | The region ID. Minimum length: 0 characters Maximum length: 255 characters |
| os_type | Yes | String | The OS type. Minimum length: 0 characters Maximum length: 255 characters |

Request

Table 5-152 Request header parameter

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| X-Auth-Token | Yes | String | The user token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header). Minimum length: 1 character Maximum length: 16,384 characters |

Response

None

Example Request

This example checks whether NICs and security groups meet the requirements.

```
GET https://{endpoint}/v3/tasks/abcd6935282ses/networkacl/dsedasdferet9685/check?
region_id=XXXXX&os_type=XXXX
```

Example Response

None

Status Codes

| Status Code | Description |
|-------------|--------------------|
| 200 | Response returned. |

Error Codes

For details, see [Error Codes](#).

5.4.13 Querying a Certificate Passphrase

Function

This API is used to query the certificate passphrase of the secure transmission channel in a task.

Calling Method

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

URI

GET /v3/tasks/{task_id}/passphrase

Table 5-153 Path parameter

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| task_id | Yes | String | The task ID. Minimum length: 0 characters Maximum length: 255 characters |

Request

Table 5-154 Request header parameter

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| X-Auth-Token | Yes | String | The user token. The token can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token. Minimum length: 1 character Maximum length: 16,384 characters |

Response

Status code: 200

Table 5-155 Response body parameters

| Parameter | Type | Description |
|------------|--------|--|
| task_id | String | The task ID. Minimum length: 0 characters Maximum length: 255 characters |
| passphrase | String | The passphrase of the secure transmission channel certificate. Minimum length: 0 characters Maximum length: 255 characters |

Example Request

This example queries the certificate passphrase of the secure transmission channel in task ****d7fa81b9-c174-4c0a-a475-51a54c8af8a4****.

```
GET https://{endpoint}/v3/tasks/d7fa81b9-c174-4c0a-a475-51a54c8af8a4/passphrase
```

Example Response

Status code: 200

This status code is returned when the request is successful.

```
{
  "task_id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "passphrase" : "*****"
}
```

Status Codes

| Status Code | Description |
|-------------|--|
| 200 | This status code is returned when the request is successful. |

Error Codes

For details, see [Error Codes](#).

5.4.14 Uploading Migration Task Logs

Function

This API is used to upload the logs of a migration task.

Calling Method

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

URI

POST /v3/tasks/{task_id}/log

Table 5-156 Path parameter

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| task_id | Yes | String | The migration task ID. Minimum length: 0 characters Maximum length: 255 characters |

Request

Table 5-157 Request header parameter

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| X-Auth-Token | Yes | String | The user token. Minimum length: 1 character Maximum length: 16,384 characters |

Table 5-158 Request body parameters

| Parameter | Mandatory | Type | Description |
|------------|-----------|---------|--|
| log_bucket | Yes | String | The bucket name. Minimum length: 0 characters Maximum length: 255 characters |
| log_expire | Yes | Integer | The validity period Minimum value: 300 Maximum value: 64800 |

Response

None

Example Request

This example uploads migration task logs to bucket **centos** and sets the URL validity period to 300 seconds.

```
POST https://{endpoint}/v3/tasks/{task_id}/log
{
  "log_bucket": "centos",
  "log_expire": 300
}
```

Example Response

None

Status Codes

| Status Code | Description |
|-------------|-------------|
| 200 | ok |

Error Codes

For details, see [Error Codes](#).

5.4.15 Obtaining Consistency Verification Results

Function

This API is used to obtain the brief consistency verification results of a task.

Calling Method

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

URI

GET /v3/tasks/{task_id}/consistency-result

Table 5-159 Path parameters

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| task_id | Yes | String | The task ID. Minimum length: 0 characters Maximum length: 255 characters |

Request

Table 5-160 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| X-Auth-Token | Yes | String | The user token. The token can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token. Minimum length: 1 character Maximum length: 16,384 characters |

Response

Status code: 200

Table 5-161 Response body parameters

| Parameter | Type | Description |
|--------------------|--|---|
| consistency_result | Array of ConsistencyResult objects | The verification results. Array length: 0 to 10 characters |

| Parameter | Type | Description |
|---------------|------|--|
| finished_time | Long | The verification completion time. Minimum value: 0 Maximum value: 100000000000 |

Table 5-162 ConsistencyResult field description

| Parameter | Type | Description |
|-----------------------|---------|---|
| dir_check | String | The directory verified. Minimum length: 0 characters Maximum length: 1,024 characters |
| num_total_files | Integer | The total number of files verified. Minimum value: 0 Maximum value: 100000 |
| num_different_files | Integer | The number of files inconsistent. Minimum value: 0 Maximum value: 100000 |
| num_target_miss_files | Integer | The number of files missing at the target. Minimum value: 0 Maximum value: 100000 |
| num_target_more_files | Integer | The number of files redundant at the target. Minimum value: 0 Maximum value: 100000 |

Status code: 400

Table 5-163 Response body parameters

| Parameter | Type | Description |
|------------|--------|--|
| error_code | String | The error code. Minimum length: 0 characters Maximum length: 255 characters |
| error_msg | String | The error message. Minimum length: 0 characters Maximum length: 1,024 characters |

Status code: 404

Table 5-164 Response body parameters

| Parameter | Type | Description |
|------------|--------|--|
| error_code | String | The error code. Minimum length: 0 characters Maximum length: 255 characters |
| error_msg | String | The error message. Minimum length: 0 characters Maximum length: 1,024 characters |

Status code: 500

Table 5-165 Response body parameters

| Parameter | Type | Description |
|------------|--------|--|
| error_code | String | The error code. Minimum length: 0 characters Maximum length: 255 characters |
| error_msg | String | The error message. Minimum length: 0 characters Maximum length: 1,024 characters |

Example Request

This example obtains the brief consistency verification results of the task whose ID is **137224b7-8d7c-4919-b33e-ed159778xxxx**.

```
GET https://{endpoint}/v3/137224b7-8d7c-4919-b33e-ed159778xxxx/consistency-result
```

Example Response

Status code: 200

The brief consistency verification results are obtained.

```
{
  "consistency_result": [
    {
      "dir_check": "/root/data",
      "num_total_files": 1235,
      "num_different_files": 12,
      "num_target_miss_files": 12,
      "num_target_more_files": 12
    },
    {
      "dir_check": "/var",
```

```

    "num_total_files":1235,
    "num_different_files": 12,
    "num_target_miss_files":12,
    "num_target_more_files":12
  }
]
"finished_time":"1598435801422"
}

```

Status Codes

| Status Code | Description |
|-------------|---|
| 200 | The brief consistency verification results were obtained. |
| 400 | The request parameters are missing. |
| 404 | The task was not found. |
| 500 | Obtaining verification results failed. |

Error Codes

For details, see [Error Codes](#).

5.4.16 Uploading Consistency Verification Results

Function

This API is called by the Agent to upload the consistency verification results of a task.

Calling Method

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

URI

POST /v3/tasks/{task_id}/consistency-result

Table 5-166 Path parameters

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| task_id | Yes | String | The task ID. Minimum length: 0 characters Maximum length: 255 characters |

Request

Table 5-167 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| X-Auth-Token | Yes | String | The user token. The token can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token. Minimum length: 1 character Maximum length: 16,384 characters |

Table 5-168 Request body parameters

| Parameter | Mandatory | Type | Description |
|--------------------|-----------|---|--|
| consistency_result | Yes | Array of ConsistencyResult objects | The verification results. Array length: 0 to 10 characters |
| finished_time | No | Long | The verification completion time. Minimum value: 0 Maximum value: 100000000000 |

Table 5-169 ConsistencyResult

| Parameter | Mandatory | Type | Description |
|-----------------|-----------|---------|--|
| dir_check | Yes | String | The directory verified. Minimum length: 0 characters Maximum length: 1,024 characters |
| num_total_files | Yes | Integer | The total number of files verified. Minimum value: 0 Maximum value: 100000 |

| Parameter | Mandatory | Type | Description |
|-----------------------|-----------|---------|---|
| num_different_files | Yes | Integer | The number of files inconsistent. Minimum value: 0 Maximum value: 100000 |
| num_target_miss_files | Yes | Integer | The number of files missing at the target. Minimum value: 0 Maximum value: 100000 |
| num_target_more_files | Yes | Integer | The number of files redundant at the target. Minimum value: 0 Maximum value: 100000 |

Response

Status code: 400

Table 5-170 Response body parameters

| Parameter | Type | Description |
|------------|--------|--|
| error_code | String | The error code. Minimum length: 0 characters Maximum length: 255 characters |
| error_msg | String | The error message. Minimum length: 0 characters Maximum length: 1,024 characters |

Status code: 404

Table 5-171 Response body parameters

| Parameter | Type | Description |
|------------|--------|--|
| error_code | String | The error code. Minimum length: 0 characters Maximum length: 255 characters |
| error_msg | String | The error message. Minimum length: 0 characters Maximum length: 1,024 characters |

Status code: 500

Table 5-172 Response body parameters

| Parameter | Type | Description |
|------------|--------|--|
| error_code | String | The error code. Minimum length: 0 characters Maximum length: 255 characters |
| error_msg | String | The error message. Minimum length: 0 characters Maximum length: 1,024 characters |

Example Request

This example updates the brief consistency verification results of the task whose ID is **137224b7-8d7c-4919-b33e-ed159778xxxx**.

POST https://{endpoint}/v3/137224b7-8d7c-4919-b33e-ed159778xxxx/consistency-result

```
{
  "consistency_result": [ {
    "dir_check": "/root/data",
    "num_total_files": 1235,
    "num_different_files": 12,
    "num_target_miss_files": 12,
    "num_target_more_files": 12
  }, {
    "dir_check": "/var",
    "num_total_files": 1235,
    "num_different_files": 12,
    "num_target_miss_files": 12,
    "num_target_more_files": 12
  }
]
```

Example Response

Status code: 200

The brief consistency verification results were updated.

```
{}
```

Status Codes

| Status Code | Description |
|-------------|--|
| 200 | The brief consistency verification results were updated. |
| 400 | The request parameters are missing. |

| Status Code | Description |
|-------------|--|
| 404 | The task was not found. |
| 500 | Updating network measurement results failed. |

Error Codes

For details, see [Error Codes](#).

5.5 Command Management

5.5.1 Obtaining Commands from SMS

Function

This API is called by the migration Agent to obtain commands sent from the SMS server to the migration Agent on a specified source server.

Calling Method

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

URI

GET /v3/sources/{server_id}/command

Table 5-173 Path parameter

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| server_id | Yes | String | Specifies the source server ID to which the command is sent. Minimum length: 0 characters Maximum length: 255 characters |

Request

Table 5-174 Request header parameter

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| X-Auth-Token | Yes | String | The user token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header). Minimum length: 1 character Maximum length: 16,384 characters |

Response

Status code: 200

Table 5-175 Response body parameters

| Parameter | Type | Description |
|---------------|----------------------------|--|
| command_name | String | The command name. The options are START , STOP , DELETE , and SYNC . Minimum length: 0 characters Maximum length: 255 characters |
| command_param | CommandParam object | The command response parameters. |

Table 5-176 ComandParam field description

| Parameter | Type | Description |
|-----------|--------|--|
| task_id | String | The task ID. Minimum length: 0 characters Maximum length: 255 characters |
| bucket | String | The bucket name. Minimum length: 0 characters Maximum length: 255 characters |

Status code: 400

Table 5-177 Response body parameters

| Parameter | Type | Description |
|------------|--------|--|
| error_code | String | Error Codes Minimum length: 0 characters Maximum length: 255 characters |
| error_msg | String | The error message. Minimum length: 0 characters Maximum length: 1,024 characters |

Status code: 401

Table 5-178 Response body parameters

| Parameter | Type | Description |
|------------|--------|--|
| error_code | String | Error Codes Minimum length: 0 characters Maximum length: 255 characters |
| error_msg | String | The error message. Minimum length: 0 characters Maximum length: 1,024 characters |

Status code: 403

Table 5-179 Response body parameters

| Parameter | Type | Description |
|------------|--------|--|
| error_code | String | Error Codes Minimum length: 0 characters Maximum length: 255 characters |
| error_msg | String | The error message. Minimum length: 0 characters Maximum length: 1,024 characters |

Status code: 404

Table 5-180 Response body parameters

| Parameter | Type | Description |
|------------|--------|--|
| error_code | String | Error Codes Minimum length: 0 characters Maximum length: 255 characters |
| error_msg | String | The error message. Minimum length: 0 characters Maximum length: 1,024 characters |

Status code: 500

Table 5-181 Response body parameters

| Parameter | Type | Description |
|------------|--------|--|
| error_code | String | Error Codes Minimum length: 0 characters Maximum length: 255 characters |
| error_msg | String | The error message. Minimum length: 0 characters Maximum length: 1,024 characters |

Example Request

This example obtains the command sent to the Agent installed on the source server whose ID is **f32ab4d6-d150-4fb3-aa55-edbb5cf9947f**.

```
GET https://{endpoint}/v3/sources/f32ab4d6-d150-4fb3-aa55-edbb5cf9947f/command
```

Example Response

Status code: 200

OK

```
{
  "command_name": "START",
  "command_param": {
    "task_id": "xxxxxxxxxxxxxxxxxxxx0000001"
  }
}
```

Status Codes

| Status Code | Description |
|-------------|-----------------------|
| 200 | Response returned. |
| 400 | Bad Request |
| 401 | Unauthorized |
| 403 | Forbidden |
| 404 | Not Found |
| 500 | Internal Server Error |

Error Codes

For details, see [Error Codes](#).

5.5.2 Reporting the Command Execution Result to SMS

Function

This API is called by the Agent to send the execution result of a specified command to SMS.

Calling Method

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

URI

POST /v3/sources/{server_id}/command_result

Table 5-182 Path parameter

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| server_id | Yes | String | The ID of the source server for which the Agent reports the command execution result to SMS. Minimum length: 0 characters Maximum length: 255 characters |

Request

Table 5-183 Request header parameter

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| X-Auth-Token | No | String | The user token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header). Minimum length: 1 character Maximum length: 16,384 characters |

Table 5-184 Request body parameters

| Parameter | Mandatory | Type | Description |
|---------------|-----------|--------|--|
| command_name | Yes | String | The command name. The value can be START , STOP , DELETE , SYNC , UPLOAD_LOG , or RSET_LOG_ACL . Minimum length: 0 characters Maximum length: 255 characters |
| result | Yes | String | The command execution result. success : indicates that the command is executed successfully. fail : indicates that the command fails to be executed. Minimum length: 0 characters Maximum length: 255 characters |
| result_detail | Yes | Object | The command execution result in JSON format. This parameter is used only to save command execution results to the SMS database. |

Response

Status code: 400

Table 5-185 Response body parameters

| Parameter | Type | Description |
|------------|--------|--|
| error_code | String | Error Codes Minimum length: 0 characters Maximum length: 255 characters |
| error_msg | String | The error message. Minimum length: 0 characters Maximum length: 1,024 characters |

Status code: 401

Table 5-186 Response body parameters

| Parameter | Type | Description |
|------------|--------|--|
| error_code | String | Error Codes Minimum length: 0 characters Maximum length: 255 characters |
| error_msg | String | The error message. Minimum length: 0 characters Maximum length: 1,024 characters |

Status code: 403

Table 5-187 Response body parameters

| Parameter | Type | Description |
|------------|--------|--|
| error_code | String | Error Codes Minimum length: 0 characters Maximum length: 255 characters |
| error_msg | String | The error message. Minimum length: 0 characters Maximum length: 1,024 characters |

Status code: 404

Table 5-188 Response body parameters

| Parameter | Type | Description |
|------------|--------|--|
| error_code | String | Error Codes Minimum length: 0 characters Maximum length: 255 characters |
| error_msg | String | The error message. Minimum length: 0 characters Maximum length: 1,024 characters |

Status code: 500

Table 5-189 Response body parameters

| Parameter | Type | Description |
|------------|--------|--|
| error_code | String | Error Codes Minimum length: 0 characters Maximum length: 255 characters |
| error_msg | String | The error message. Minimum length: 0 characters Maximum length: 1,024 characters |

Example Request

This example sends the execution result of a specified command to the SMS server. The command is **START**, and the execution result is **success**.

```
POST https://{endpoint}/v3/sources/f32ab4d6-d150-4fb3-aa55-edbb5cf9xxxx/command_result
{
  "command_name": "START",
  "result": "success",
  "result_detail": {
    "msg": "xxx"
  }
}
```

Example Response

None

Status Codes

| Status Code | Description |
|-------------|-----------------------|
| 200 | Response returned. |
| 400 | Bad Request |
| 401 | Unauthorized |
| 403 | Forbidden |
| 404 | Not Found |
| 500 | Internal Server Error |

Error Codes

For details, see [Error Codes](#).

5.6 Template Management

5.6.1 Creating a Template

Function

This API is used to create a template.

Calling Method

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

URI

POST /v3/vm/templates

Request

Table 5-190 Request header parameter

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| X-Auth-Token | Yes | String | The user token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header). Minimum length: 1 character Maximum length: 16,384 characters |

Table 5-191 Request body parameters

| Parameter | Mandatory | Type | Description |
|-----------|-----------|-------------------------------|---------------------------|
| template | Yes | TemplateRequest object | The template information. |

Table 5-192 **TemplateRequest** field description

| Parameter | Mandatory | Type | Description |
|-------------|-----------|---------|---|
| name | Yes | String | The template name. Minimum length: 0 characters Maximum length: 255 characters |
| is_template | Yes | Boolean | Specifies whether the template is general. If the template is associated with a task, the template is not a general template. |
| region | Yes | String | The region. Minimum length: 0 characters Maximum length: 255 characters |
| projectid | Yes | String | The project ID. Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Mandatory | Type | Description |
|--------------------|-----------|-------------------------------|--|
| target_server_name | No | String | The name of the target server. Minimum length: 0 characters Maximum length: 255 characters |
| availability_zone | No | String | The AZ. Minimum length: 0 characters Maximum length: 255 characters |
| volumetype | No | String | The disk type. The value can be: <ul style="list-style-type: none"> • SAS • SSD • SATA |
| flavor | No | String | The flavor of the target server. Minimum length: 0 characters Maximum length: 65,535 characters |
| vpc | No | VpcObject object | The VPC information. |
| nics | No | Array of Nics objects | The NIC information. Multiple NICs are supported. If the target server is automatically created, enter only one NIC and set the ID to autoCreate . Array length: 0 to 65,535 characters |
| security_groups | No | Array of SgObject objects | The security group information. Multiple security groups are supported. If the target server is automatically created, enter only one security group and set the ID to autoCreate . Array length: 0 to 65,535 characters |
| publicip | No | PublicIp object | The public IP address. |
| disk | No | Array of TemplateDisk objects | The disk information. Array length: 0 to 65,535 characters |

| Parameter | Mandatory | Type | Description |
|------------------|-----------|--------|--|
| data_volume_type | No | String | The disk type. The value can be: <ul style="list-style-type: none"> • SAS • SSD • SATA |
| target_password | No | String | The password for logging in to the target server. Minimum length: 0 characters Maximum length: 1,024 characters |
| image_id | No | String | The ID of the image used to create target servers. Minimum length: 0 characters Maximum length: 255 characters |

Table 5-193 VpcObject field description

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|---|
| id | Yes | String | The VPC ID. If the target server is created automatically, set this parameter to autoCreate . Minimum length: 1 character Maximum length: 255 characters |
| name | Yes | String | The VPC name. Minimum length: 1 character Maximum length: 255 characters |
| cidr | No | String | The VPC CIDR block. The default value is 192.168.0.0/16 . Minimum length: 1 character Maximum length: 255 characters |

Table 5-194 Nics field description

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| id | Yes | String | The subnet ID. If the target server is created automatically, set this parameter to autoCreate . Minimum length: 0 characters Maximum length: 255 characters |
| name | Yes | String | The subnet name. Minimum length: 0 characters Maximum length: 255 characters |
| cidr | Yes | String | The subnet gateway/mask. Minimum length: 0 characters Maximum length: 255 characters |
| ip | No | String | The IP address of the target server. If this parameter is not specified, the system will automatically assign an IP address. Minimum length: 0 characters Maximum length: 255 characters |

Table 5-195 SgObject field description

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| id | Yes | String | The security group ID. Minimum length: 0 characters Maximum length: 255 characters |
| name | Yes | String | The security group name. Minimum length: 0 characters Maximum length: 255 characters |

Table 5-196 PublicIp field description

| Parameter | Mandatory | Type | Description |
|----------------------|-----------|---------|---|
| type | Yes | String | The EIP type. The default value is 5_bgp . Minimum length: 0 characters Maximum length: 255 characters |
| bandwidth_size | Yes | Integer | The bandwidth size in Mbit/s. The minimum increment for bandwidth adjustment varies depending on the bandwidth range. The minimum increment is 1 Mbit/s if the allowed bandwidth ranges from 0 to 300 Mbit/s. The minimum increment is 50 Mbit/s if the allowed bandwidth ranges from 300 Mbit/s to 1,000 Mbit/s. The minimum increment is 500 Mbit/s if the allowed bandwidth is greater than 1,000 Mbit/s. Minimum value: 1 Maximum value: 2000 |
| bandwidth_share_type | No | String | The bandwidth type, shared or dedicated. Minimum length: 0 characters Maximum length: 255 characters |

Table 5-197 TemplateDisk field description

| Parameter | Mandatory | Type | Description |
|-----------|-----------|---------|---|
| id | No | Long | The disk ID. Minimum value: 0 Maximum value: 9223372036854775807 |
| index | Yes | Integer | The disk serial number, starting from 0 . Minimum value: 0 Maximum value: 2147483647 |

| Parameter | Mandatory | Type | Description |
|------------|-----------|--------|---|
| name | Yes | String | The disk name. Minimum length: 0 characters Maximum length: 255 characters |
| disktype | Yes | String | The disk type. The value is the same as that of volumetype . Minimum length: 0 characters Maximum length: 255 characters |
| size | Yes | Long | The disk size in GB. Minimum value: 0 Maximum value: 9223372036854775807 |
| device_use | No | String | The used disk space. Minimum length: 0 characters Maximum length: 255 characters |

Response

Status code: 200

Table 5-198 Response body parameters

| Parameter | Type | Description |
|-----------|--------|---|
| id | String | The ID of the newly created template returned by SMS. Minimum length: 0 characters Maximum length: 255 characters |

Example Request

- This example creates a migration task template. The template name is **xxxx**, the region information is **region**, and the project ID is **00924d0ad2df4f21ac476dd9f3288xxx**.

POST https://{endpoint}/v3/vm/templates

```
{
  "template": {
    "name": "",
    "is_template": false,
    "region": "region",
    "target_server_name": "abcd",
```

```

"availability_zone" : "availability_zone",
"projectid" : "xxxxxxxxxxxxxxxxxxxxxxxx00000001",
"volumetype" : "",
"image_id" : "",
"vpc" : {
  "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "name" : "sms-1566979232(192.168.0.0/16)"
},
"security_groups" : [ {
  "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "name": "kubernetes.io-default-sg (Inbound: udp/1-65535;tcp/22,1-65535,3389; Outbound: --) "
} ],
"nics" : [ {
  "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "name" : "sms-1566979244(192.168.0.0/16)",
  "cidr" : "192.168.0.0/16",
  "ip" : ""
} ],
"flavor" : "s2.medium.2",
"publicip" : {
  "type" : "5_bgp",
  "bandwidth_size" : 5,
  "bandwidth_share_type" : "PER"
},
"disk" : [ {
  "index" : 0,
  "name" : "system",
  "disktype" : "",
  "size" : 40
} ]
}
}

```

- This example creates a template directly.

```

POST https://{endpoint}/v3/vm/templates

{
  "template" : {
    "name" : "xxxx",
    "is_template" : true,
    "region" : "region",
    "target_server_name" : "ggg-win16-t",
    "availability_zone" : "availability_zone",
    "projectid" : "xxxxxxxxxxxxxxxxxxxxxxxx00000001",
    "target_password" : "*****",
    "flavor" : "c3.medium.2",
    "vpc" : {
      "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      "name" : "Migrate-SSd-1",
      "cidr" : "192.168.0.0/16"
    },
    "nics" : [ {
      "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      "name" : "Migrate-SSd-35",
      "cidr" : "192.168.0.0/16",
      "ip" : ""
    } ],
    "security_groups" : [ {
      "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      "name" : "Migrate-dddd"
    } ],
    "disk" : [ {
      "id" : "0",
      "index" : 0,
      "name" : "Disk 0",
      "disktype" : "SATA",
      "size" : 40,
      "device_use" : "BOOT"
    } ],
    "volumetype" : "SATA",
  }
}

```

```

"publicip" : {
  "type" : "5_g-vm",
  "bandwidth_size" : 10,
  "bandwidth_share_type" : "PER"
}
}
}

```

Example Response

Status code: 200

OK

```

{
  "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001"
}

```

Status Codes

| Status Code | Description |
|-------------|--------------------|
| 200 | Response returned. |

Error Codes

For details, see [Error Codes](#).

5.6.2 Listing Templates

Function

This API is used to query the list of templates used for creating target servers. You can use this template to create target servers if you choose to create a server as the target server.

Calling Method

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

URI

GET /v3/vm/templates

Table 5-199 Query parameters

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| name | No | String | The template name. Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Mandatory | Type | Description |
|-------------------|-----------|---------|--|
| availability_zone | No | String | The AZ. Minimum length: 0 characters Maximum length: 255 characters |
| region | No | String | Region ID Minimum length: 0 characters Maximum length: 255 characters |
| limit | No | Integer | The number of records displayed on each page. If this parameter is not transferred, the default value 50 is used. Minimum value: 0 Maximum value: 100 Default value: 50 |
| offset | No | Integer | The offset. If this parameter is not transferred, the default value 0 is used. Minimum value: 0 Maximum value: 65535 Default value: 0 |

Request

Table 5-200 Request header parameter

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| X-Auth-Token | Yes | String | The user token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header). Minimum length: 1 character Maximum length: 16,384 characters |

Response

Status code: 200

Table 5-201 Response body parameters

| Parameter | Type | Description |
|-----------|---|--|
| count | Integer | The number of templates. Minimum value: 0 Maximum value: 65535 |
| templates | Array of TemplateResponseBody objects | The template information. Array length: 0 to 65,535 characters |

Table 5-202 TemplateResponseBody

| Parameter | Type | Description |
|--------------------|--------|---|
| id | String | The template ID. Minimum length: 0 characters Maximum length: 255 characters |
| name | String | The template name. Minimum length: 0 characters Maximum length: 255 characters |
| is_template | String | Specifies whether the template is general. If the template is associated with a task, the template is not a general template. Minimum length: 0 characters Maximum length: 255 characters |
| region | String | The region. Minimum length: 0 characters Maximum length: 255 characters |
| projectid | String | The project ID. Minimum length: 0 characters Maximum length: 255 characters |
| target_server_name | String | The name of the target server. Minimum length: 0 characters Maximum length: 255 characters |
| availability_zone | String | The AZ. Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Type | Description |
|------------------|--------------------------------------|--|
| volumetype | String | The disk type. The value can be: <ul style="list-style-type: none"> • SAS • SSD • SATA |
| flavor | String | The flavor of the target server. Minimum length: 0 characters Maximum length: 255 characters |
| vpc | VpcObject object | The VPC information. |
| nics | Array of Nics objects | The NIC information. Multiple NICs are supported. If the target server is automatically created, enter only one NIC and set the ID to autoCreate . Array length: 0 to 65,535 characters |
| security_groups | Array of SgObject objects | The security group information. Multiple security groups are supported. If the target server is automatically created, enter only one security group and set the ID to autoCreate . Array length: 0 to 65,535 characters |
| publicip | PublicIp object | The public IP address information. |
| disk | Array of TemplateDisk objects | The disk information. Array length: 0 to 65,535 characters |
| data_volume_type | String | The disk type. The value can be: <ul style="list-style-type: none"> • SAS • SSD • SATA |
| target_password | String | The password for logging in to the target server. Minimum length: 0 characters Maximum length: 1,024 characters |
| image_id | String | The ID of the selected image. Minimum length: 0 characters Maximum length: 255 characters |

Table 5-203 VpcObject field description

| Parameter | Type | Description |
|-----------|--------|---|
| id | String | The VPC ID. If the target server is created automatically, set this parameter to autoCreate . Minimum length: 1 character Maximum length: 255 characters |
| name | String | The VPC name. Minimum length: 1 character Maximum length: 255 characters |
| cidr | String | The VPC CIDR block. The default value is 192.168.0.0/16 . Minimum length: 1 character Maximum length: 255 characters |

Table 5-204 Nics field description

| Parameter | Type | Description |
|-----------|--------|--|
| id | String | The subnet ID. If the target server is created automatically, set this parameter to autoCreate . Minimum length: 0 characters Maximum length: 255 characters |
| name | String | The subnet name. Minimum length: 0 characters Maximum length: 255 characters |
| cidr | String | The subnet gateway/mask. Minimum length: 0 characters Maximum length: 255 characters |
| ip | String | The IP address of the target server. If this parameter is not specified, the system will automatically assign an IP address. Minimum length: 0 characters Maximum length: 255 characters |

Table 5-205 SgObject field description

| Parameter | Type | Description |
|-----------|--------|--|
| id | String | The security group ID. Minimum length: 0 characters Maximum length: 255 characters |
| name | String | The security group name. Minimum length: 0 characters Maximum length: 255 characters |

Table 5-206 PublicIp field description

| Parameter | Type | Description |
|----------------------|---------|---|
| type | String | The EIP type. The default value is 5_bgp . Minimum length: 0 characters Maximum length: 255 characters |
| bandwidth_size | Integer | The bandwidth size in Mbit/s. The minimum increment for bandwidth adjustment varies depending on the bandwidth range. The minimum increment is 1 Mbit/s if the allowed bandwidth ranges from 0 to 300 Mbit/s. The minimum increment is 50 Mbit/s if the allowed bandwidth ranges from 300 Mbit/s to 1,000 Mbit/s. The minimum increment is 500 Mbit/s if the allowed bandwidth is greater than 1,000 Mbit/s. Minimum value: 1 Maximum value: 2000 |
| bandwidth_share_type | String | The bandwidth type, shared or dedicated. Minimum length: 0 characters Maximum length: 255 characters |

Table 5-207 TemplateDisk field description

| Parameter | Type | Description |
|-----------|------|--|
| id | Long | The disk ID. Minimum value: 0 Maximum value: 9223372036854775807 |

| Parameter | Type | Description |
|------------|---------|---|
| index | Integer | The disk serial number, starting from 0 Minimum value: 0 Maximum value: 2147483647 |
| name | String | The disk name. Minimum length: 0 characters Maximum length: 255 characters |
| disktype | String | The disk type. The value is the same as that of volumetype . Minimum length: 0 characters Maximum length: 255 characters |
| size | Long | The disk size in GB. Minimum value: 0 Maximum value: 9223372036854775807 |
| device_use | String | The used disk space. Minimum length: 0 characters Maximum length: 255 characters |

Example Request

Query the template list.

```
GET https://{endpoint}/v3/vm/templates
```

Example Response

Status code: 200

OK

```
{
  "count" : 9,
  "templates" : [ {
    "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "name" : "test",
    "region" : "region",
    "availability_zone" : "availability_zone",
    "projectid" : "xxxxxxxxxxxxxxxxxxxxxxxx00000001",
    "flavor" : "s2.large.2",
    "volumetype" : "",
    "image_id" : "",
    "vpc" : {
      "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      "name" : "vpc-dfdb"
    },
  },
  "nics" : [ {
    "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "name" : "subnet-dfdb(192.168.1.0/24)",
    "cidr" : "192.168.1.0/24",
    "ip" : ""
  } ],
}
```

```
"security_groups" : [ {
  "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "name" : "default(Inbound:tcp/8900,8899,3389,22; Outbound:--)"
} ]
}, {
  "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "name" : "test1",
  "region" : "region",
  "availability_zone" : "availability_zone",
  "projectid" : "xxxxxxxxxxxxxxxxxxxxxxxx00000001",
  "flavor" : "s6.large.2",
  "volumetype" : "",
  "image_id" : "",
  "vpc" : {
    "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "name" : "vpc-13d6"
  },
  "nics" : [ {
    "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "name" : "subnet-13d6(192.168.1.0/24)",
    "cidr" : "192.168.1.0/24",
    "ip" : ""
  } ],
  "security_groups" : [ {
    "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "name" : "sms-1568190885(Inbound:tcp/8900,8899,3389; Outbound:--)"
  } ]
}, {
  "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "name" : "test2",
  "region" : "region",
  "availability_zone" : "availability_zone",
  "projectid" : "xxxxxxxxxxxxxxxxxxxxxxxx00000001",
  "flavor" : "s2.large.2",
  "volumetype" : "",
  "image_id" : "",
  "vpc" : {
    "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "name" : "vpc-testcloud(192.168.0.0/16)"
  },
  "nics" : [ {
    "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "name" : "subnet-testcloud(192.168.0.0/24)",
    "cidr" : "192.168.0.0/24",
    "ip" : ""
  } ],
  "security_groups" : [ ]
}, {
  "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "name" : "fdff",
  "region" : "region",
  "availability_zone" : "availability_zone",
  "projectid" : "xxxxxxxxxxxxxxxxxxxxxxxx00000001",
  "flavor" : "s2.large.2",
  "volumetype" : "",
  "image_id" : "",
  "vpc" : {
    "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "name" : "vpc-migration(192.168.0.0/16)"
  },
  "nics" : [ {
    "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "name" : "subnet-cf42(192.168.5.0/24)",
    "cidr" : "192.168.5.0/24",
    "ip" : ""
  } ],
  "security_groups" : [ {
    "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "name" : "sg-smt-test(Inbound:tcp/3389,8899,22,8900; Outbound:--)"
  } ]
}
```

```
    }
  }, {
    "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "name": "test3",
    "region": "region",
    "availability_zone": "availability_zone",
    "projectid": "xxxxxxxxxxxxxxxxxxxxxxxx00000001",
    "flavor": "s2.medium.2",
    "volumetype": "",
    "image_id": "",
    "vpc": { },
    "nics": [ ],
    "security_groups": [ ]
  }, {
    "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "name": "test_linux_childproj",
    "region": "region",
    "availability_zone": "availability_zone",
    "projectid": "xxxxxxxxxxxxxxxxxxxxxxxx00000001",
    "flavor": "s2.small.1",
    "volumetype": "SATA",
    "image_id": "",
    "vpc": {
      "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      "name": "sms-1567992634(192.168.0.0/16)"
    },
    "nics": [ {
      "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      "name": "sms-1567992646(192.168.0.0/16)",
      "cidr": "192.168.0.0/16",
      "ip": ""
    } ],
    "security_groups": [ {
      "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      "name": "sg-7e50(Inbound:tcp/8900,8899,3389,22; Outbound:--)"
    } ]
  }, {
    "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "name": "12212",
    "region": "region",
    "availability_zone": "availability_zone",
    "projectid": "xxxxxxxxxxxxxxxxxxxxxxxx00000001",
    "flavor": "s2.large.2",
    "volumetype": "",
    "image_id": "",
    "vpc": {
      "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      "name": "vpc-migration(192.168.0.0/16)"
    },
    "nics": [ {
      "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      "name": "subnet-migration(192.168.1.0/24)",
      "cidr": "192.168.1.0/24",
      "ip": ""
    } ],
    "security_groups": [ {
      "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      "name": "SMT-Windows(Inbound:tcp/8443,8899,8900,22,3389;icmp; Outbound:--)"
    } ]
  }, {
    "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "name": "test4",
    "region": "region",
    "availability_zone": "availability_zone",
    "projectid": "xxxxxxxxxxxxxxxxxxxxxxxx00000001",
    "flavor": "s2.medium.2",
    "volumetype": "SATA",
    "image_id": "",
    "vpc": { },
```



```
"nics" : [ ],  
"security_groups" : [ ]  
}, {  
  "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",  
  "name" : "dddd",  
  "region" : "region",  
  "availability_zone" : "availability_zone",  
  "projectid" : "xxxxxxxxxxxxxxxxxxxxxxxx00000001",  
  "flavor" : "s2.large.2",  
  "volumetype" : "",  
  "image_id" : "",  
  "vpc" : {  
    "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",  
    "name" : "sms-1566979232(192.168.0.0/16)"  
  },  
  "nics" : [ {  
    "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",  
    "name" : "sms-1566979244(192.168.0.0/16)",  
    "cidr" : "192.168.0.0/16",  
    "ip" : ""  
  } ],  
  "security_groups" : [ ]  
} ]  
}
```

Status Codes

| Status Code | Description |
|-------------|--------------------|
| 200 | Response returned. |

Error Codes

For details, see [Error Codes](#).

5.6.3 Batch Deleting Templates

Function

This API is used to delete templates with specified IDs in batches.

Calling Method

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

URI

POST /v3/vm/templates/delete

Request

Table 5-208 Request header parameter

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| X-Auth-Token | Yes | String | The user token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header). Minimum length: 1 character Maximum length: 16,384 characters |

Table 5-209 Request body parameters

| Parameter | Mandatory | Type | Description |
|-----------|-----------|------------------|---|
| ids | No | Array of strings | The IDs of the templates to be deleted. Minimum length: 0 characters Maximum length: 255 characters Array length: 0 to 65,535 characters |

Response

None

Example Request

This example deletes templates with IDs of **3db302e8-95de-478c-a892-8a083f2dxxxx** and **708847ae-f013-4b1a-8ea8-6cfa1e94xxxx** in a batch.

```
POST https://{endpoint}/v3/vm/templates/delete
```

```
{
  "ids" : [ "3db302e8-95de-478c-a892-8a083f2dxxxx", "708847ae-f013-4b1a-8ea8-6cfa1e94xxxx" ]
}
```

Example Response

None

Status Codes

| Status Code | Description |
|-------------|--------------------|
| 200 | Response returned. |

Error Codes

For details, see [Error Codes](#).

5.6.4 Deleting a Template

Function

This API is used to delete a template with a specified ID.

Calling Method

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

URI

DELETE /v3/vm/templates/{id}

Table 5-210 Path parameter

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|---|
| id | Yes | String | The ID of the template to be deleted. Minimum length: 0 characters Maximum length: 255 characters |

Request

Table 5-211 Request header parameter

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| X-Auth-Token | Yes | String | The user token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header). Minimum length: 1 character Maximum length: 16,384 characters |

Response

None

Example Request

Delete the template whose ID is **2bf4344f-8f1f-414e-bb1b-8c2f59ada67f**.

```
DELETE https://{endpoint}/v3/vm/templates/2bf4344f-8f1f-414e-bb1b-8c2f59ada67f
```

Example Response

None

Status Codes

| Status Code | Description |
|-------------|--------------------|
| 200 | Response returned. |

Error Codes

For details, see [Error Codes](#).

5.6.5 Querying Details About a Template

Function

This API is used to query information about an ECS template with a specified ID.

Calling Method

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

URI

GET /v3/vm/templates/{id}

Table 5-212 Path parameter

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|---|
| id | Yes | String | The ID of the template to be queried. Minimum length: 0 characters Maximum length: 255 characters |

Request

Table 5-213 Request header parameter

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| X-Auth-Token | Yes | String | The user token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header). Minimum length: 1 character Maximum length: 16,384 characters |

Response

Status code: 200

Table 5-214 Response body parameters

| Parameter | Type | Description |
|-----------|---|---------------------------|
| template | TemplateResponseBody object | The template information. |

Table 5-215 TemplateResponseBody field description

| Parameter | Type | Description |
|--------------------|----------------------------|---|
| id | String | The template ID. Minimum length: 0 characters Maximum length: 255 characters |
| name | String | The template name. Minimum length: 0 characters Maximum length: 255 characters |
| is_template | String | Specifies whether the template is general. If the template is associated with a task, the template is not a general template. Minimum length: 0 characters Maximum length: 255 characters |
| region | String | The region. Minimum length: 0 characters Maximum length: 255 characters |
| projectid | String | The project ID. Minimum length: 0 characters Maximum length: 255 characters |
| target_server_name | String | The name of the target server. Minimum length: 0 characters Maximum length: 255 characters |
| availability_zone | String | The AZ. Minimum length: 0 characters Maximum length: 255 characters |
| volumetype | String | The disk type. The value can be: <ul style="list-style-type: none"> • SAS • SSD • SATA |
| flavor | String | The flavor of the target server. Minimum length: 0 characters Maximum length: 255 characters |
| vpc | VpcObject object | The VPC information. |

| Parameter | Type | Description |
|------------------|--------------------------------------|--|
| nics | Array of Nics objects | The NIC information. Multiple NICs are supported. If the target server is automatically created, enter only one NIC and set the ID to autoCreate . Array length: 0 to 65,535 characters |
| security_groups | Array of SgObject objects | The security group information. Multiple security groups are supported. If the target server is automatically created, enter only one security group and set the ID to autoCreate . Array length: 0 to 65,535 characters |
| publicip | PublicIp object | The information about the public IP address that will be used for migration. |
| disk | Array of TemplateDisk objects | The disk information. Array length: 0 to 65,535 characters |
| data_volume_type | String | The disk type. The value can be: <ul style="list-style-type: none"> • SAS • SSD • SATA |
| target_password | String | The password for logging in to the target server. Minimum length: 0 characters Maximum length: 1,024 characters |
| image_id | String | The ID of the selected image. Minimum length: 0 characters Maximum length: 255 characters |

Table 5-216 VpcObject field description

| Parameter | Type | Description |
|-----------|--------|---|
| id | String | The VPC ID. If the target server is created automatically, set this parameter to autoCreate . Minimum length: 1 character Maximum length: 255 characters |
| name | String | The VPC name. Minimum length: 1 character Maximum length: 255 characters |

| Parameter | Type | Description |
|-----------|--------|---|
| cidr | String | The VPC CIDR block. The default value is 192.168.0.0/16 . Minimum length: 1 character Maximum length: 255 characters |

Table 5-217 Nics field description

| Parameter | Type | Description |
|-----------|--------|--|
| id | String | The subnet ID. If the target server is created automatically, set this parameter to autoCreate . Minimum length: 0 characters Maximum length: 255 characters |
| name | String | The subnet name. Minimum length: 0 characters Maximum length: 255 characters |
| cidr | String | The subnet gateway/mask. Minimum length: 0 characters Maximum length: 255 characters |
| ip | String | The IP address of the target server. If this parameter is not specified, the system will automatically assign an IP address. Minimum length: 0 characters Maximum length: 255 characters |

Table 5-218 SgObject field description

| Parameter | Type | Description |
|-----------|--------|--|
| id | String | The security group ID. Minimum length: 0 characters Maximum length: 255 characters |
| name | String | The security group name. Minimum length: 0 characters Maximum length: 255 characters |

Table 5-219 PublicIp field description

| Parameter | Type | Description |
|----------------------|---------|---|
| type | String | The EIP type. The default value is 5_bgp . Minimum length: 0 characters Maximum length: 255 characters |
| bandwidth_size | Integer | The bandwidth size in Mbit/s. The minimum increment for bandwidth adjustment varies depending on the bandwidth range. The minimum increment is 1 Mbit/s if the allowed bandwidth ranges from 0 to 300 Mbit/s. The minimum increment is 50 Mbit/s if the allowed bandwidth ranges from 300 Mbit/s to 1,000 Mbit/s. The minimum increment is 500 Mbit/s if the allowed bandwidth is greater than 1,000 Mbit/s. Minimum value: 1 Maximum value: 2000 |
| bandwidth_share_type | String | The bandwidth type, shared or dedicated. Minimum length: 0 characters Maximum length: 255 characters |

Table 5-220 TemplateDisk field description

| Parameter | Type | Description |
|-----------|---------|--|
| id | Long | The disk ID. Minimum value: 0 Maximum value: 9223372036854775807 |
| index | Integer | The disk serial number, starting from 0 Minimum value: 0 Maximum value: 2147483647 |
| name | String | The disk name. Minimum length: 0 characters Maximum length: 255 characters |
| disktype | String | The disk type. The value is the same as that of volumentype . Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Type | Description |
|------------|--------|--|
| size | Long | The disk size in GB. Minimum value: 0 Maximum value: 9223372036854775807 |
| device_use | String | The used disk space. Minimum length: 0 characters Maximum length: 255 characters |

Example Request

Query details about the template whose ID is **6874cb49-48bb-4875-975d-4bca464d8472**.

GET https://{endpoint}/v3/vm/templates/6874cb49-48bb-4875-975d-4bca464d8472

Example Response

Status code: 200

OK

```
{
  "template": {
    "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "name": "test1025",
    "region": "region",
    "target_server_name": "",
    "availability_zone": "availability_zone",
    "projectid": "xxxxxxxxxxxxxxxxxxxxxxxx00000001",
    "flavor": "s2.large.2",
    "volumetype": "",
    "image_id": "",
    "vpc": {
      "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      "name": "vpc-testcloud(192.168.0.0/16)"
    },
    "nics": [ {
      "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      "name": "subnet-testcloud(192.168.0.0/24)",
      "cidr": "192.168.0.0/24",
      "ip": ""
    } ],
    "security_groups": [ ],
    "publicip": {
      "type": "5_bgp",
      "bandwidth_size": 5,
      "bandwidth_share_type": "PER"
    },
    "disk": [ {
      "index": 0,
      "name": "system",
      "disktype": "",
      "size": 40
    } ]
  }
}
```

Status Codes

| Status Code | Description |
|-------------|--------------------|
| 200 | Response returned. |

Error Codes

For details, see [Error Codes](#).

5.6.6 Modifying a Template

Function

This API is used to modify the template information.

Calling Method

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

URI

PUT /v3/vm/templates/{id}

Table 5-221 Path parameter

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| id | Yes | String | The ID of the template to be modified. Minimum length: 0 characters Maximum length: 255 characters |

Request

Table 5-222 Request header parameter

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| X-Auth-Token | Yes | String | The user token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header). Minimum length: 1 character Maximum length: 16,384 characters |

Table 5-223 Request body parameters

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--|---------------------------|
| template | No | TemplateRequest object | The template information. |

Table 5-224 [TemplateRequest](#) field description

| Parameter | Mandatory | Type | Description |
|-------------|-----------|---------|---|
| name | Yes | String | The template name. Minimum length: 0 characters Maximum length: 255 characters |
| is_template | Yes | Boolean | Specifies whether the template is general. If the template is associated with a task, the template is not a general template. |
| region | Yes | String | The region. Minimum length: 0 characters Maximum length: 255 characters |
| projectid | Yes | String | The project ID. Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Mandatory | Type | Description |
|--------------------|-----------|--------------------------------------|--|
| target_server_name | No | String | The name of the target server. Minimum length: 0 characters Maximum length: 255 characters |
| availability_zone | No | String | The AZ. Minimum length: 0 characters Maximum length: 255 characters |
| volumetype | No | String | The disk type. The value can be: <ul style="list-style-type: none"> • SAS • SSD • SATA |
| flavor | No | String | The flavor of the target server. Minimum length: 0 characters Maximum length: 65,535 characters |
| vpc | No | VpcObject object | The VPC information. |
| nics | No | Array of Nics objects | The NIC information. Multiple NICs are supported. If the target server is automatically created, enter only one NIC and set the ID to autoCreate . Array length: 0 to 65,535 characters |
| security_groups | No | Array of SgObject objects | The security group information. Multiple security groups are supported. If the target server is automatically created, enter only one security group and set the ID to autoCreate . Array length: 0 to 65,535 characters |
| publicip | No | PublicIp object | The information about the public IP address that will be used for migration. |
| disk | No | Array of TemplateDisk objects | The disk information. Array length: 0 to 65,535 characters |

| Parameter | Mandatory | Type | Description |
|------------------|-----------|--------|--|
| data_volume_type | No | String | The disk type. The value can be: <ul style="list-style-type: none"> • SAS • SSD • SATA |
| target_password | No | String | The password for logging in to the target server. Minimum length: 0 characters Maximum length: 1,024 characters |
| image_id | No | String | The ID of the image used to create target servers. Minimum length: 0 characters Maximum length: 255 characters |

Table 5-225 VpcObject field description

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|---|
| id | Yes | String | The VPC ID. If the target server is created automatically, set this parameter to autoCreate . Minimum length: 1 character Maximum length: 255 characters |
| name | Yes | String | The VPC name. Minimum length: 1 character Maximum length: 255 characters |
| cidr | No | String | The VPC CIDR block. The default value is 192.168.0.0/16 . Minimum length: 1 character Maximum length: 255 characters |

Table 5-226 Nics field description

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| id | Yes | String | The subnet ID. If the target server is created automatically, set this parameter to autoCreate . Minimum length: 0 characters Maximum length: 255 characters |
| name | Yes | String | The subnet name. Minimum length: 0 characters Maximum length: 255 characters |
| cidr | Yes | String | The subnet gateway/mask. Minimum length: 0 characters Maximum length: 255 characters |
| ip | No | String | The IP address of the target server. If this parameter is not specified, the system will automatically assign an IP address. Minimum length: 0 characters Maximum length: 255 characters |

Table 5-227 SgObject field description

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| id | Yes | String | The security group ID. Minimum length: 0 characters Maximum length: 255 characters |
| name | Yes | String | The security group name. Minimum length: 0 characters Maximum length: 255 characters |

Table 5-228 PublicIp field description

| Parameter | Mandatory | Type | Description |
|----------------------|-----------|---------|---|
| type | Yes | String | The EIP type. The default value is 5_bgp . Minimum length: 0 characters Maximum length: 255 characters |
| bandwidth_size | Yes | Integer | The bandwidth size in Mbit/s. The minimum increment for bandwidth adjustment varies depending on the bandwidth range. The minimum increment is 1 Mbit/s if the allowed bandwidth ranges from 0 to 300 Mbit/s. The minimum increment is 50 Mbit/s if the allowed bandwidth ranges from 300 Mbit/s to 1,000 Mbit/s. The minimum increment is 500 Mbit/s if the allowed bandwidth is greater than 1,000 Mbit/s. Minimum value: 1 Maximum value: 2000 |
| bandwidth_share_type | No | String | The bandwidth type, shared or dedicated. Minimum length: 0 characters Maximum length: 255 characters |

Table 5-229 TemplateDisk field description

| Parameter | Mandatory | Type | Description |
|-----------|-----------|---------|---|
| id | No | Long | The disk ID. Minimum value: 0 Maximum value: 9223372036854775807 |
| index | Yes | Integer | The disk serial number, starting from 0 Minimum value: 0 Maximum value: 2147483647 |

| Parameter | Mandatory | Type | Description |
|------------|-----------|--------|---|
| name | Yes | String | The disk name. Minimum length: 0 characters Maximum length: 255 characters |
| disktype | Yes | String | The disk type. The value is the same as that of volumetype . Minimum length: 0 characters Maximum length: 255 characters |
| size | Yes | Long | The disk size in GB. Minimum value: 0 Maximum value: 9223372036854775807 |
| device_use | No | String | The used disk space. Minimum length: 0 characters Maximum length: 255 characters |

Response

None

Example Request

This example changes the name of the template whose ID is **dfbdd142-985f-4a4f-93e1-c535b46bxxxx** to **test1025** and its project ID to **00924d0ad2df4f21ac476dd9f3288xxxx**.

```
PUT https://{endpoint}/v3/vm/templates/dfbdd142-985f-4a4f-93e1-c535b46bxxxx
```

```
{
  "template": {
    "name": "test1025",
    "is_template": false,
    "region": "region",
    "projectid": "xxxxxxxxxxxxxxxxxxxxxxxx00000001",
    "vpc": {
      "id": "autoCreate",
      "name": "autoCreate"
    },
  },
  "nics": [ {
    "id": "autoCreate",
    "name": "autoCreate",
    "cidr": "192.168.0.0/24"
  } ],
  "security_groups": [ {
    "id": "autoCreate",
    "name": "autoCreate"
  } ],
  "publicip": {
```

```
"type" : "5_bgp",  
  "bandwidth_size" : 1  
},  
"disk" : [{  
  "index" : 0,  
  "name" : "index1",  
  "disktype" : "type",  
  "size" : 111  
}]  
}
```

Example Response

None

Status Codes

| Status Code | Description |
|-------------|--------------------|
| 200 | Response returned. |

Error Codes

For details, see [Error Codes](#).

5.6.7 Querying the Target Server Password in a Template

Function

This API is used to query the target server password configured in a template.

Calling Method

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

URI

GET /v3/vm/templates/{id}/target-password

Table 5-230 Path parameter

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| id | Yes | String | The template ID. Minimum length: 0 characters Maximum length: 255 characters |

Request

Table 5-231 Request header parameter

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| X-Auth-Token | Yes | String | The user token. The token can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token. Minimum length: 1 character Maximum length: 16,384 characters |

Response

Status code: 200

Table 5-232 Response body parameters

| Parameter | Type | Description |
|-----------------|--------|---|
| template_id | String | The template ID. Minimum length: 0 characters Maximum length: 255 characters |
| target_password | String | The target server password. Minimum length: 0 characters Maximum length: 255 characters |

Example Request

This example queries the target server password configured in the specified template.

```
GET https://{endpoint}/v3/vm/templates/ef3b9722-07a0-40ae-89b0-889ee96dfc56/target-password
```

Example Response

Status code: 200

The target server password is returned.

```
{
  "template_id": "xxxxxxxx-xxxx-xxxx-xxxxxxxx0001",
  "target_password": "*****"
}
```

Status Codes

| Status Code | Description |
|-------------|---|
| 200 | The target server password is returned. |

Error Codes

For details, see [Error Codes](#).

5.7 Key Management

5.7.1 Obtaining an SSL Certificate and Private Key

Function

If the block-level migration method is used, the Agent installed on the source server communicates with the target server through an SSL socket connection. This API is used to download the certificate and private key (in PEM format) required for data migration.

Calling Method

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

URI

GET /v3/tasks/{task_id}/certkey

Table 5-233 Path parameter

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| task_id | Yes | String | The migration task ID. Minimum length: 0 characters Maximum length: 255 characters |

Table 5-234 Query parameters

| Parameter | Mandatory | Type | Description |
|-----------------------|-----------|---------|--|
| enable_ca_certificate | No | Boolean | Indicates whether to generate a CA certificate. Default value: false |

Request parameters

Table 5-235 Request header parameter

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| X-Auth-Token | Yes | String | The user token. The token can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token. Minimum length: 1 character Maximum length: 16,384 characters |

Response

Status code: 200

Table 5-236 Response body parameters

| Parameter | Type | Description |
|-------------------------|--------|--|
| cert | String | The source certificate. Minimum length: 1 character Maximum length: 1,048,576 characters |
| private_key | String | The source private key. Minimum length: 1 character Maximum length: 1,048,576 characters |
| ca | String | The CA certificate. Minimum length: 1 character Maximum length: 1,048,576 characters |
| target_mgmt_cert | String | The certificate of the target server for migration task management. Minimum length: 1 character Maximum length: 1,048,576 characters |
| target_mgmt_private_key | String | The private key of the target server for migration task management. Minimum length: 1 character Maximum length: 1,048,576 characters |

| Parameter | Type | Description |
|-------------------------|--------|---|
| target_data_certificate | String | The certificate of the target server for data migration. Minimum length: 1 character Maximum length: 1,048,576 characters |
| target_data_private_key | String | The private key of the target server for data migration. Minimum length: 1 character Maximum length: 1,048,576 characters |

Status code: 400

Table 5-237 Response body parameters

| Parameter | Type | Description |
|------------|--------|--|
| error_code | String | The error code. Minimum length: 0 characters Maximum length: 255 characters |
| error_msg | String | The error message. Minimum length: 0 characters Maximum length: 1,024 characters |

Status code: 401

Table 5-238 Response body parameters

| Parameter | Type | Description |
|------------|--------|--|
| error_code | String | The error code. Minimum length: 0 characters Maximum length: 255 characters |
| error_msg | String | The error message. Minimum length: 0 characters Maximum length: 1,024 characters |

Status code: 403

Table 5-239 Response body parameters

| Parameter | Type | Description |
|------------|--------|--|
| error_code | String | The error code. Minimum length: 0 characters Maximum length: 255 characters |
| error_msg | String | The error message. Minimum length: 0 characters Maximum length: 1,024 characters |

Status code: 404

Table 5-240 Response body parameters

| Parameter | Type | Description |
|------------|--------|--|
| error_code | String | The error code. Minimum length: 0 characters Maximum length: 255 characters |
| error_msg | String | The error message. Minimum length: 0 characters Maximum length: 1,024 characters |

Status code: 500

Table 5-241 Response body parameters

| Parameter | Type | Description |
|------------|--------|--|
| error_code | String | The error code. Minimum length: 0 characters Maximum length: 255 characters |
| error_msg | String | The error message. Minimum length: 0 characters Maximum length: 1,024 characters |

Example Request

This example obtains the certificate and private key required for a migration task.

GET https://{endpoint}/v3/tasks/{task_id}/certkey?enable_ca_cert=true

Example Response

Status code: 200

OK

```
{
  "ca" : "-----BEGIN CERTIFICATE-----\n*****\n-----END CERTIFICATE-----\n",
  "cert" : "-----BEGIN CERTIFICATE-----\n*****\n-----END CERTIFICATE-----\n",
  "private_key" : "-----BEGIN RSA PRIVATE KEY-----\n*****\n-----END RSA PRIVATE KEY-----\n",
  "target_mgmt_cert" : "-----BEGIN CERTIFICATE-----\n*****\n-----END CERTIFICATE-----\n",
  "target_mgmt_private_key" : "-----BEGIN RSA PRIVATE KEY-----\n*****\n-----END RSA PRIVATE KEY-----\n",
  "target_data_cert" : "-----BEGIN CERTIFICATE-----\n*****\n-----END CERTIFICATE-----\n",
  "target_data_private_key" : "-----BEGIN RSA PRIVATE KEY-----\n*****\n-----END RSA PRIVATE KEY-----\n"
}
```

Status Codes

| Status Code | Description |
|-------------|-----------------------|
| 200 | Response returned. |
| 400 | Bad Request |
| 401 | Unauthorized |
| 403 | Forbidden |
| 404 | Not Found |
| 500 | Internal Server Error |

Error Codes

For details, see [Error Codes](#).

5.7.2 Calculating an SHA256 Hash

Function

This API is used to calculate SHA256 values. The value of the encrypted field must be in the UUID format.

Calling Method

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

URI

GET /v3/sha256/{key}

Table 5-242 Path parameter

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|---|
| key | Yes | String | The keyword. The value of the encrypted field must be in the UUID format. Minimum length: 1 character Maximum length: 16,384 characters |

Request

Table 5-243 Request header parameter

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| X-Auth-Token | Yes | String | The user token. The token can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token. Minimum length: 1 character Maximum length: 16,384 characters |

Response

Status code: 200

Table 5-244 Response body parameters

| Parameter | Type | Description |
|-----------|--------|---|
| value | String | The SHA256 hash value. Minimum length: 1 character Maximum length: 1,048,576 characters |

Example Request

This example calculates an SHA256 hash.

```
GET https://{endpoint}/v3/sha256/xxxxx
```

Example Response

Status code: 200

OK

```
{  
  "value" : "xxxxxxxxxxx"  
}
```

Status Codes

| Status Code | Description |
|-------------|--------------------|
| 200 | Response returned. |

Error Codes

For details, see [Error Codes](#).

5.8 Migration Project Management

5.8.1 Creating a Migration Project

Function

This API is used to create a migration project.

Constraints

The migration project name must be unique.

Calling Method

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

URI

POST /v3/migprojects

Request

Table 5-245 Request header parameter

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| X-Auth-Token | Yes | String | The user token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header). Minimum length: 1 character Maximum length: 16,384 characters |

Table 5-246 Request body parameters

| Parameter | Mandatory | Type | Description |
|---------------------|-----------|---------|--|
| name | Yes | String | The migration project name. Minimum length: 2 characters Maximum length: 19 characters |
| description | No | String | Describes the migration project. Minimum length: 0 characters Maximum length: 255 characters |
| isdefault | No | Boolean | Indicates whether the migration project is the default project. Default value: false |
| region | Yes | String | The region name. Minimum length: 0 characters Maximum length: 255 characters |
| start_target_server | No | Boolean | Specifies whether to start the target server after the migration. Default value: true |
| speed_limit | No | Integer | The migration rate limit, in Mbit/s. Minimum value: 0 Maximum value: 10000 |

| Parameter | Mandatory | Type | Description |
|---------------------|-----------|---------|--|
| use_public_ip | Yes | Boolean | Specifies whether to use a public IP address for migration. Default value: true |
| exist_server | Yes | Boolean | Specifies whether to use an existing ECS as the target server. Default value: true |
| type | Yes | String | The migration project type. Minimum length: 0 characters Maximum length: 255 characters The value can be: <ul style="list-style-type: none"> • MIGRATE_BLOCK • MIGRATE_FILE |
| enterprise_project | No | String | The enterprise project name. Default value: default Minimum length: 0 characters Maximum length: 255 characters |
| syncing | Yes | Boolean | Specifies whether to perform a continuous synchronization after the first replication or synchronization. Default value: false |
| start_network_check | No | Boolean | Whether to measure the network performance. |

Response

Status code: 200

Table 5-247 Response body parameters

| Parameter | Type | Description |
|-----------|--------|--|
| id | String | The ID of the newly added migration project returned after the migration project is created. Minimum length: 0 characters Maximum length: 255 characters |

Example Request

This example creates a migration project. This example creates a migration project by setting the project name to **N121**, the region to **region**, the public IP address to **true**, and the migration project type is **MIGRATE_BLOCK**.

POST https://{endpoint}/v3/migprojects

```
{
  "name" : "N121",
  "description" : "",
  "region" : "region",
  "start_target_server" : true,
  "speed_limit" : 0,
  "use_public_ip" : true,
  "exist_server" : true,
  "isdefault" : true,
  "type" : "MIGRATE_BLOCK",
  "syncing" : false,
  "enterprise_project" : "defalut"
}
```

Example Response

Status code: 200

OK

```
{
  "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001"
}
```

Status Codes

| Status Code | Description |
|-------------|--------------------|
| 200 | Response returned. |

Error Codes

For details, see [Error Codes](#).

5.8.2 Listing Migration Projects

Function

SMS enables you to use migration projects to manage source servers. This API is used to obtain the list of all migration projects under the current account.

Calling Method

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

URI

GET /v3/migprojects

Table 5-248 Query parameters

| Parameter | Mandatory | Type | Description |
|-----------|-----------|---------|--|
| limit | No | Integer | The number of migration projects recorded on each page Minimum value: 0 Maximum value: 100 Default value: 50 |
| offset | No | Integer | The offset. Minimum value: 0 Maximum value: 65535 Default value: 0 |

Request

Table 5-249 Request header parameter

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| X-Auth-Token | Yes | String | The user token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header). Minimum length: 1 character Maximum length: 16,384 characters |

Response

Status code: 200

Table 5-250 Response body parameters

| Parameter | Type | Description |
|-------------|---|--|
| count | Integer | The number of queried migration projects. Minimum value: 0 Maximum value: 2147483647 |
| migprojects | Array of MigprojectsResponseBody objects | The details of the queried migration projects. Array length: 0 to 65,535 characters |

Table 5-251 MigprojectsResponseBody field description

| Parameter | Type | Description |
|---------------------|---------|---|
| id | String | The migration project ID. Minimum length: 1 character Maximum length: 254 characters |
| name | String | The migration project name. Minimum length: 2 characters Maximum length: 19 characters |
| use_public_ip | Boolean | Specifies whether to use a public IP address for migration. |
| isdefault | Boolean | Specifies whether the migration project is the default project. |
| start_target_server | Boolean | Specifies whether to start the target server after the migration. |
| region | String | The region name. Minimum length: 0 characters Maximum length: 255 characters |
| speed_limit | Integer | The migration rate limit configured in the project. The unit is Mbit/s. Minimum value: 0 Maximum value: 10000 |
| exist_server | Boolean | Specifies whether there are servers in the migration project. |
| description | String | Describes the migration project. Minimum length: 0 characters Maximum length: 255 characters |
| type | String | The default migration type of the project. The value can be: <ul style="list-style-type: none"> • MIGRATE_BLOCK • MIGRATE_FILE |
| enterprise_project | String | The name of the enterprise project to which the migration project belongs. Minimum length: 0 characters Maximum length: 255 characters |
| syncing | Boolean | Whether to perform a continuous synchronization after the full replication is complete. |

| Parameter | Type | Description |
|---------------------|---------|---|
| start_network_check | Boolean | Whether to measure the network performance. |

Example Request

Obtain the list of migration projects.

```
GET https://{endpoint}/v3/migprojects
```

Example Response

Status code: 200

A list of migration projects is obtained successfully.

```
{
  "count" : 6,
  "migprojects" : [ {
    "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "name" : "sms_test",
    "use_public_ip" : true,
    "isdefault" : true,
    "start_target_server" : true,
    "region" : "06334e957c80d2642f39c0030856abdb",
    "speed_limit" : 0,
    "exist_server" : true,
    "description" : "",
    "type" : "MIGRATE_BLOCK",
    "enterprise_project" : "defalut"
  }, {
    "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "name" : "SystemProject",
    "use_public_ip" : true,
    "isdefault" : false,
    "start_target_server" : true,
    "region" : "region",
    "speed_limit" : 0,
    "exist_server" : true,
    "description" : "",
    "type" : "MIGRATE_BLOCK",
    "enterprise_project" : "defalut"
  }, {
    "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "name" : "sms_test",
    "use_public_ip" : true,
    "isdefault" : false,
    "start_target_server" : true,
    "region" : "region",
    "speed_limit" : 0,
    "exist_server" : true,
    "description" : "",
    "type" : "MIGRATE_BLOCK",
    "enterprise_project" : "defalut"
  }, {
    "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "name" : "sms_test_Test",
    "use_public_ip" : true,
    "isdefault" : false,
    "start_target_server" : true,
    "region" : "region",
    "speed_limit" : 0,
    "exist_server" : true,
```



```
"description" : "",
"type" : "MIGRATE_BLOCK",
"enterprise_project" : "defalut"
}, {
  "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "name" : "sms_test002",
  "use_public_ip" : true,
  "isdefault" : false,
  "start_target_server" : true,
  "region" : "region",
  "speed_limit" : 0,
  "exist_server" : true,
  "description" : "",
  "type" : "MIGRATE_BLOCK",
  "enterprise_project" : "defalut"
}, {
  "id" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "name" : "sms_test003",
  "use_public_ip" : true,
  "isdefault" : false,
  "start_target_server" : true,
  "region" : "region",
  "speed_limit" : 0,
  "exist_server" : true,
  "description" : "",
  "type" : "MIGRATE_BLOCK",
  "enterprise_project" : "defalut"
}]
}
```

Status Codes

| Status Code | Description |
|-------------|--|
| 200 | A list of migration projects is obtained successfully. |

Error Codes

For details, see [Error Codes](#).

5.8.3 Querying Details About a Migration Project

Function

This API is used to query details about a migration project with a specified ID.

Calling Method

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

URI

GET /v3/migprojects/{mig_project_id}

Table 5-252 Path parameter

| Parameter | Mandatory | Type | Description |
|----------------|-----------|--------|---|
| mig_project_id | Yes | String | The migration project ID. Minimum length: 0 characters Maximum length: 255 characters |

Request

Table 5-253 Request header parameter

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| X-Auth-Token | Yes | String | The user token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header). Minimum length: 1 character Maximum length: 16,384 characters |

Response

Status code: 200

Table 5-254 Response body parameters

| Parameter | Type | Description |
|-------------|--------|--|
| id | String | The migration project ID. Minimum length: 1 character Maximum length: 254 characters |
| name | String | The migration project name. Minimum length: 2 characters Maximum length: 19 characters |
| description | String | Describes the migration project. Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Type | Description |
|---------------------|---------|--|
| isdefault | Boolean | Specifies whether the migration project is the default project. Default value: false |
| region | String | The region name. Minimum length: 0 characters Maximum length: 255 characters |
| start_target_server | Boolean | Specifies whether to start the target server after the migration. Default value: true |
| speed_limit | Integer | The migration rate limit, in Mbit/s. Minimum value: 0 Maximum value: 10000 |
| use_public_ip | Boolean | Specifies whether to use a public IP address for migration. Default value: true |
| exist_server | Boolean | Specifies whether to use an existing ECS as the target server. Default value: true |
| type | String | The migration project type. The value can be: <ul style="list-style-type: none"> • MIGRATE_BLOCK • MIGRATE_FILE |
| enterprise_project | String | The enterprise project name. Default value: default Minimum length: 0 characters Maximum length: 255 characters |
| syncing | Boolean | Specifies whether to perform a continuous synchronization after the first replication or synchronization. Default value: false |
| start_network_check | Boolean | Whether to measure the network performance. |

Example Request

This example queries the migration project whose ID is **137224b7-8d7c-4919-b33e-ed159778d7a7**.

```
GET https://{endpoint}/v3/migprojects/137224b7-8d7c-4919-b33e-ed159778d7a7
```

Example Response

Status code: 200

OK

```
{
  "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
  "name": "456",
  "template": {
    "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
    "name": "123456",
    "region": "region",
    "availability_zone": "availability_zone",
    "projectid": "xxxxxxxxxxxxxxxxxxxxxxxx00000001",
    "flavor": "S1.large.4",
    "volumetype": "",
    "vpc": {
      "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      "name": "vpc-b162zzzz(192.168.0.0/16)"
    },
    "nics": [ {
      "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      "name": "subnet-b18ezzz(192.168.0.0/24)",
      "cidr": "192.168.0.0/24",
      "ip": ""
    } ],
    "security_groups": [ {
      "id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001",
      "name": "default(Inbound:tcp/3389,22; Outbound:--)"
    } ]
  },
  "isdefault": true,
  "region": null,
  "start_target_server": false,
  "speed_limit": 0,
  "use_public_ip": true
}
```

Status Codes

| Status Code | Description |
|-------------|--------------------|
| 200 | Response returned. |

Error Codes

For details, see [Error Codes](#).

5.8.4 Deleting a Migration Project

Function

This API is used to delete a migration project with a specified ID.

Constraints

Only projects that have no servers can be deleted.

Calling Method

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

URI

DELETE /v3/migprojects/{mig_project_id}

Table 5-255 Path parameter

| Parameter | Mandatory | Type | Description |
|----------------|-----------|--------|--|
| mig_project_id | Yes | String | The ID of the migration project to be deleted. Minimum length: 0 characters Maximum length: 255 characters |

Request

Table 5-256 Request header parameter

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| X-Auth-Token | Yes | String | The user token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header). Minimum length: 1 character Maximum length: 16,384 characters |

Response

None

Example Request

This example deletes the project whose ID is **137224b7-8d7c-4919-b33e-ed159778d7a7**.

```
DELETE https://{endpoint}/v3/migprojects/137224b7-8d7c-4919-b33e-ed159778d7a7
```

Example Response

None

Status Codes

| Status Code | Description |
|-------------|--------------------|
| 200 | Response returned. |

Error Codes

For details, see [Error Codes](#).

5.8.5 Modifying a Migration Project

Function

This API is used to modify a migration project.

Calling Method

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

URI

PUT /v3/migprojects/{mig_project_id}

Table 5-257 Path parameter

| Parameter | Mandatory | Type | Description |
|----------------|-----------|--------|---|
| mig_project_id | Yes | String | The migration project ID. Minimum length: 0 characters Maximum length: 255 characters |

Request

Table 5-258 Request header parameter

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| X-Auth-Token | Yes | String | The user token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header). Minimum length: 1 character Maximum length: 16,384 characters |

Table 5-259 Request body parameters

| Parameter | Mandatory | Type | Description |
|---------------------|-----------|---------|--|
| id | No | String | The migration project ID. Minimum length: 1 character Maximum length: 254 characters |
| name | Yes | String | The migration project name. Minimum length: 2 characters Maximum length: 19 characters |
| description | No | String | Describes the migration project. Minimum length: 0 characters Maximum length: 255 characters |
| isdefault | No | Boolean | Specifies whether the migration project is the default project. Default value: false |
| region | Yes | String | The region name. Minimum length: 0 characters Maximum length: 255 characters |
| start_target_server | No | Boolean | Specifies whether to start the target server after the migration. Default value: true |
| speed_limit | No | Integer | The migration rate limit, in Mbit/s. Minimum value: 0 Maximum value: 10000 |
| use_public_ip | Yes | Boolean | Specifies whether to use a public IP address for migration. Default value: true |
| exist_server | Yes | Boolean | Specifies whether to use an existing ECS as the target server. Default value: true |

| Parameter | Mandatory | Type | Description |
|---------------------|-----------|---------|--|
| type | Yes | String | The migration project type. The value can be: <ul style="list-style-type: none"> • MIGRATE_BLOCK • MIGRATE_FILE |
| enterprise_project | No | String | The enterprise project name. Default value: default Minimum length: 0 characters Maximum length: 255 characters |
| syncing | Yes | Boolean | Specifies whether to perform a continuous synchronization after the first replication or synchronization. Default value: false |
| start_network_check | No | Boolean | Whether to measure the network performance. |

Response

None

Example Request

This example modifies the information about the migration project whose ID is **9879f7aa-3347-47fb-8f89-6070f9e0xxxx**. The new migration project name is **225**, the region information is **region**, the speed limit is **100 Mbit/s**, and the migration type is **MIGRATE_FILE**.

```
PUT https://{endpoint}/v3/migprojects/9879f7aa-3347-47fb-8f89-6070f9e0xxxx
```

```
{
  "name" : 225,
  "region" : "region",
  "description" : "hello",
  "start_target_server" : true,
  "speed_limit" : 100,
  "use_public_ip" : true,
  "exist_server" : true,
  "type" : "MIGRATE_FILE",
  "syncing" : false
}
```

Example Response

None

Status Codes

| Status Code | Description |
|-------------|---|
| 200 | The migration project has been modified successfully. |

Error Codes

For details, see [Error Codes](#).

5.8.6 Changing the Default Migration Project

Function

This API is used to change the default migration project. If you change the default migration project, the source server will be registered under the changed project.

Calling Method

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

URI

PUT /v3/migprojects/{mig_project_id}/default

Table 5-260 Path parameter

| Parameter | Mandatory | Type | Description |
|----------------|-----------|--------|---|
| mig_project_id | Yes | String | The migration project ID. Minimum length: 0 characters Maximum length: 255 characters |

Request

Table 5-261 Request header parameter

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| X-Auth-Token | Yes | String | The user token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header). Minimum length: 1 character Maximum length: 16,384 characters |

Response

None

Example Request

This example changes the default migration project to **137224b7-8d7c-4919-b33e-ed159778xxx**.

```
PUT https://{endpoint}/v3/migprojects/137224b7-8d7c-4919-b33e-ed159778xxxx/default
```

Example Response

None

Status Codes

| Status Code | Description |
|-------------|--|
| 200 | The default migration project has been changed successfully. |

Error Codes

For details, see [Error Codes](#).

5.9 Network Measurement Management

5.9.1 Updating Network Measurement Information

Function

The API is called by the Agent to report network measurement information.

Calling Method

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

URI

POST /v3/{task_id}/update-network-check-info

Table 5-262 Path parameter

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| task_id | Yes | String | The task ID. Minimum length: 0 characters Maximum length: 255 characters |

Request

Table 5-263 Request header parameter

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| X-Auth-Token | Yes | String | The user token. The token can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token. Minimum length: 1 character Maximum length: 16,384 characters |

Table 5-264 Request body parameters

| Parameter | Mandatory | Type | Description |
|--------------------------|-----------|---------|--|
| domain_connectivity | No | Boolean | The connectivity to domain names. |
| destination_connectivity | No | Boolean | The connectivity to the target server. |
| network_delay | Yes | Double | The network latency. Minimum value: 0 Maximum value: 10000.0 |

| Parameter | Mandatory | Type | Description |
|-------------------|-----------|--------|--|
| network_jitter | Yes | Double | The network jitter. Minimum value: 0 Maximum value: 10000 |
| migration_speed | Yes | Double | The bandwidth. Minimum value: 0 Maximum value: 10000 |
| loss_percentage | Yes | Double | The packet loss rate. Minimum value: 0 Maximum value: 100 |
| cpu_usage | Yes | Double | The CPU usage. Minimum value: 0 Maximum value: 100 |
| mem_usage | Yes | Double | The memory usage. Minimum value: 0 Maximum value: 100 |
| evaluation_result | Yes | String | The network evaluation result. Minimum length: 6 characters Maximum length: 8 characters |

Response

Status code: 400

Table 5-265 Response body parameters

| Parameter | Type | Description |
|------------|--------|--|
| error_code | String | The error code. Minimum length: 0 characters Maximum length: 255 characters |
| error_msg | String | The error message. Minimum length: 0 characters Maximum length: 1,024 characters |

Status code: 404

Table 5-266 Response body parameters

| Parameter | Type | Description |
|------------|--------|--|
| error_code | String | The error code. Minimum length: 0 characters Maximum length: 255 characters |
| error_msg | String | The error message. Minimum length: 0 characters Maximum length: 1,024 characters |

Status code: 500

Table 5-267 Response body parameters

| Parameter | Type | Description |
|------------|--------|--|
| error_code | String | The error code. Minimum length: 0 characters Maximum length: 255 characters |
| error_msg | String | The error message. Minimum length: 0 characters Maximum length: 1,024 characters |

Example Request

This example updates the network performance measurement results of the task **137224b7-8d7c-4919-b33e-ed159778xxxx**.

```
POST https://{endpoint}/v3/137224b7-8d7c-4919-b33e-ed159778xxxx/update-network-check-info
{
  "network_delay": "20.00",
  "network_jitter": "2.00",
  "migration_speed": "100.00",
  "loss_percentage": "0.00",
  "cpu_usage": "20.00",
  "mem_usage": "20.00",
  "evaluation_result": ""
}
```

Example Response

Status code: 200

The network measurement results are updated.

```
{
  "task_id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx0001"
}
```

Status Codes

| Status Code | Description |
|-------------|--|
| 200 | The network measurement results are updated. |
| 400 | The request parameters are missing. |
| 404 | The task does not exist. |
| 500 | Updating the network measurement results failed. |

Error Codes

For details, see [Error Codes](#).

5.10 Advanced Migration Options Management

5.10.1 Configuring Advanced Migration Options

Function

This API is used to configure advanced migration options for a task, for example, specifying the files or paths to be synchronized.

Calling Method

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

URI

POST /v3/tasks/{task_id}/configuration-setting

Table 5-268 Path parameter

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| task_id | Yes | String | The task ID. Minimum length: 0 characters Maximum length: 255 characters |

Request

Table 5-269 Request header parameter

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| X-Auth-Token | Yes | String | The user token. The token can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token. Minimum length: 1 character Maximum length: 16,384 characters |

Table 5-270 Request body parameters

| Parameter | Mandatory | Type | Description |
|----------------|-----------|------------------------------------|---|
| configurations | Yes | Array of ConfigBody objects | The list of advanced migration options. Array length: 0 to 10 characters |

Table 5-271 **ConfigBody** field description

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| config_key | Yes | String | The advanced migration option. The value can be EXCLUDE_MIGRATE_PATH , SYNC_EXCLUDE_PATH , or ONLY_SYNC_PATH . Minimum length: 0 characters Maximum length: 255 characters |
| config_value | Yes | String | The value specified for the advanced migration option. It is stored in the database and parsed on the Agent. Minimum length: 0 characters Maximum length: 1,024 characters |

| Parameter | Mandatory | Type | Description |
|---------------|-----------|--------|---|
| config_status | No | String | The reserved field that describes the configuration status. Minimum length: 0 characters Maximum length: 255 characters |

Response

Status code: 404

Table 5-272 Response body parameters

| Parameter | Type | Description |
|------------|--------|--|
| error_code | String | The error code. Minimum length: 0 characters Maximum length: 255 characters |
| error_msg | String | The error message. Minimum length: 0 characters Maximum length: 1,024 characters |

Status code: 500

Table 5-273 Response body parameters

| Parameter | Type | Description |
|------------|--------|--|
| error_code | String | The error code. Minimum length: 0 characters Maximum length: 255 characters |
| error_msg | String | The error message. Minimum length: 0 characters Maximum length: 1,024 characters |

Example Request

This example configures advanced option **LINUX_CPU_LIMIT** to **50** for a migration task.

```
POST https://{endpoint}/v3/tasks/{task_id}/configuration-setting
```



```
{
  "configurations" : [ {
    "config_key" : "LINUX_CPU_LIMIT",
    "config_value" : 50
  } ]
}
```

Example Response

None

Status Codes

| Status Code | Description |
|-------------|---|
| 200 | Advanced migration options are configured successfully. |
| 404 | The task does not exist. |
| 500 | Advanced migration options fail to be configured. |

Error Codes

For details, see [Error Codes](#).

5.10.2 Querying the Settings of Advanced Migration Options of a Task

Function

This API is used to query the settings of advanced migration options of a task.

Calling Method

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

URI

GET /v3/tasks/{task_id}/configuration-setting

Table 5-274 Path parameter

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|---|
| task_id | Yes | String | The task ID. Minimum length: 1 character Maximum length: 255 characters |

Table 5-275 Query parameters

| Parameter | Mandatory | Type | Description |
|------------|-----------|--------|---|
| config_key | No | String | The advanced migration options to be queried. |

Request

Table 5-276 Request header parameter

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| X-Auth-Token | Yes | String | The user token. The token can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token. Minimum length: 1 character Maximum length: 16,384 characters |

Response

Status code: 200

Table 5-277 Response body parameters

| Parameter | Type | Description |
|----------------|------------------------------------|---|
| task_id | String | The task ID. Minimum length: 0 characters Maximum length: 100 characters |
| migrate_type | String | The migration method. Minimum length: 0 characters Maximum length: 255 characters |
| configurations | Array of ConfigBody objects | The settings of advanced migration options. |

Table 5-278 ConfigBody field description

| Parameter | Type | Description |
|---------------|--------|---|
| config_key | String | The advanced migration option. The value can be EXCLUDE_MIGRATE_PATH , SYNC_EXCLUDE_PATH , or ONLY_SYNC_PATH . Minimum length: 0 characters Maximum length: 255 characters |
| config_value | String | The value specified for the advanced migration option. It is stored in the database and parsed on the Agent. Minimum length: 0 characters Maximum length: 1,024 characters |
| config_status | String | The reserved field that describes the configuration status. Minimum length: 0 characters Maximum length: 255 characters |

Status code: 400

Table 5-279 Response body parameters

| Parameter | Type | Description |
|------------|--------|--|
| error_code | String | The error code. Minimum length: 0 characters Maximum length: 255 characters |
| error_msg | String | The error message. Minimum length: 0 characters Maximum length: 1,024 characters |

Status code: 404

Table 5-280 Response body parameters

| Parameter | Type | Description |
|------------|--------|---|
| error_code | String | The error code. Minimum length: 0 characters Maximum length: 255 characters |

| Parameter | Type | Description |
|-----------|--------|--|
| error_msg | String | The error message. Minimum length: 0 characters Maximum length: 1,024 characters |

Status code: 500

Table 5-281 Response body parameters

| Parameter | Type | Description |
|------------|--------|--|
| error_code | String | The error code. Minimum length: 0 characters Maximum length: 255 characters |
| error_msg | String | The error message. Minimum length: 0 characters Maximum length: 1,024 characters |

Example Request

This example obtains the settings of **MIGRATE_EXCLUDE_PATH** of the task 0867ef5f3xxxxxxxxxxxxxxxxx.

```
GET https://{endpoint}/v3/tasks/0867ef5f3xxxxxxxxxxxxxxxxx/configuration-setting?
config_key=MIGRATE_EXCLUDE_PATH
```

Example Response

Status code: 200

SUCCESS

```
{
  "task_id" : "0867ef5f3xxxxxxxxxxxxxxxxx",
  "migrate_type" : "LINUX_FILE_MIGRATE",
  "configurations" : [ {
    "config_key" : "MIGRATE_EXCLUDE_PATH",
    "config_value" : "/test",
    "config_status" : ""
  } ]
}
```

Status Codes

| Status Code | Description |
|-------------|-------------|
| 200 | SUCCESS |

| Status Code | Description |
|-------------|---|
| 400 | Bad Request |
| 404 | The task does not exist. |
| 500 | Querying the settings of advanced migration options failed. |

Error Codes

For details, see [Error Codes](#).

5.11 Privacy Agreement Management

5.11.1 Signing the Privacy Agreement

Function

This API is used to sign the privacy agreement.

Calling Method

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

URI

POST /v3/privacy-agreements

Request

Table 5-282 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| X-Auth-Token | Yes | String | The user token. The token can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token. |

Response

None

Example Request

This example signs the privacy agreement.

```
POST https://{endpoint}/v3/privacy-agreements
```

Example Response

None

Status Codes

| Status Code | Description |
|-------------|-------------|
| 200 | OK |

Error Codes

For details, see [Error Codes](#).

5.11.2 Querying Whether a User Has Signed the Privacy Agreement

Function

This API is used to query whether a user has signed the privacy agreement.

Calling Method

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

URI

GET /v3/privacy-agreements

Request

Table 5-283 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| X-Auth-Token | Yes | String | The user token. The token can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token. |

Response

Status code: 200

Table 5-284 Response body parameter

| Parameter | Type | Description |
|-----------|---------|---|
| flag | Boolean | The result of the request to query whether the user has signed the privacy agreement. |

Example Request

This example queries whether a user has signed the privacy agreement.

```
GET https://{endpoint}/v3/privacy-agreements
```

Example Response

Status code: 200

OK

```
{  
  "flag" : true  
}
```

Status Codes

| Status Code | Description |
|-------------|-------------|
| 200 | OK |

Error Codes

For details, see [Error Codes](#).

6 Appendix

6.1 Error Codes

| Status Code | Error Code | Error Message | Description | Handling Measure |
|-------------|------------|--|--|---|
| 400 | SMS.0007 | Agent error. | Agent error. | Contact technical support. |
| 400 | SMS.0201 | Network busy. Source server failed to connect to API Gateway. | Network busy. Source server failed to connect to API Gateway. | Check the network between the source server and the API gateway. |
| 400 | SMS.0202 | AK/SK authentication failed. Ensure that the AK and SK are correct. | AK/SK authentication failed. Ensure that the AK and SK are correct. | Check whether you enter the correct AK and SK of the target platform account and whether the account is frozen. |
| 400 | SMS.0203 | Connection from source server to API Gateway timed out. | Connection from source server to API Gateway timed out. | Check the network between the source server and the API gateway. |
| 400 | SMS.0204 | Insufficient permissions. Cause: {0[0]}. Obtain the required fine-grained permissions. | Insufficient permissions. Cause: {0[0]}. Obtain the required fine-grained permissions. | Obtain the required fine-grained permissions. |

| Status Code | Error Code | Error Message | Description | Handling Measure |
|-------------|------------|--|---|---|
| 400 | SMS.0205 | Incorrect system time or time zone on source server. | Incorrect system time or time zone on source server. | Change system time or time zone on source server. |
| 400 | SMS.0206 | Only x86 servers can be migrated. | Only x86 servers can be migrated. | Use another migration method. |
| 400 | SMS.0207 | KVM driver not available on source server. | KVM driver not available on source server. | Install the KVM driver. |
| 400 | SMS.0208 | Failed to send your service statement confirmation to SMS | Failed to send your confirmation to SMS. | Check the network between the source server and the API gateway. |
| 400 | SMS.0210 | Failed to create file %s on target server | Failed to create file %s on target server. | Check the network and start the migration task again. |
| 400 | SMS.0211 | Failed to send certificate decryption key to target server | Failed to send the certificate decryption key to the target server. | Check the network and start the migration task again. |
| 400 | SMS.0212 | Failed to obtain certificate decryption key. Delete the target configuration and configure the target server again | Migration failed because the source server failed to obtain certificate decryption key. | Delete the target configuration and configure the migration task again. |
| 400 | SMS.0301 | Incorrect proxy information. Check proxy configuration and try again. | Incorrect proxy information. Check proxy configuration and try again. | Modify the proxy information. |

| Status Code | Error Code | Error Message | Description | Handling Measure |
|-------------|------------|---|---|---|
| 400 | SMS.0302 | Failed to resolve domain name {0[0]}. | Failed to resolve domain name {0[0]}. | Check whether the domain name is reachable. |
| 400 | SMS.0303 | Unable to access domain name {0[0]}. | Unable to access domain name {0[0]}. | Check whether the domain name is reachable. |
| 400 | SMS.0401 | No project ID found. Cause: %s | No project ID found. Cause: %s | Contact technical support. |
| 400 | SMS.0406 | No image found. Cause: %s | No image found. Cause: %s | Contact technical support. |
| 400 | SMS.0407 | No target server information found. Cause: %s | No target server information found. Cause: %s | Contact technical support. |
| 400 | SMS.0408 | Failed to obtain details about target server %s. Cause: %s | Failed to obtain details about target server %s. Cause: %s | Contact technical support. |
| 400 | SMS.0409 | Failed to obtain volume information of target server %s. Cause %s | Failed to obtain volume information of target server %s. Cause %s | Contact technical support. |
| 400 | SMS.0410 | Failed to obtain NIC information of target server %s. Cause: %s | Failed to obtain NIC information of target server %s. Cause: %s | Contact technical support. |
| 400 | SMS.0411 | Disk %s does not exist. | Disk %s does not exist. | The disk has been deleted. Migrate the source server again. |

| Status Code | Error Code | Error Message | Description | Handling Measure |
|-------------|------------|--|--|--|
| 400 | SMS.0412 | Target server %s does not exist. | Target server %s does not exist. | The target server has been deleted. Migrate the source server again. |
| 400 | SMS.0413 | Failed to query the region where the bucket locates. Cause: %s | Failed to query the region where the bucket locates. Cause: %s | Contact technical support. |
| 400 | SMS.0414 | Failed to copy logs from the customer's OBS bucket to the destination bucket. Cause: %s | Failed to copy logs from the customer's OBS bucket to the destination bucket. Cause: %s | Contact technical support. |
| 400 | SMS.0415 | Failed to obtain the target server specifications. Cause: %s | Failed to obtain the target server specifications. Cause: %s | Contact technical support. |
| 400 | SMS.0416 | No VPC found. Cause: %s | No VPC discovered. Cause: %s | Contact technical support. |
| 400 | SMS.0417 | No security group found. Cause: %s | No security group discovered. Cause: %s | Contact technical support. |
| 400 | SMS.0418 | No subnet found. Cause: %s | No subnet discovered. Cause: %s | Contact technical support. |
| 400 | SMS.0419 | Failed to obtain the volume details of target server %s by calling the combined API. Cause: %s | Failed to obtain the volume details of target server %s by calling the combined API. Cause: %s | Contact technical support. |

| Status Code | Error Code | Error Message | Description | Handling Measure |
|-------------|------------|---|---|--|
| 400 | SMS.0420 | Failed to obtain the disk details of the target server. Cause: %s | Failed to obtain the disk details of the target server. Cause: %s | Contact technical support. |
| 400 | SMS.0421 | Failed to obtain the domain ID. Cause: %s | Failed to obtain the domain ID. Cause: %s | Contact technical support. |
| 400 | SMS.0422 | Failed to obtain the details about the VPC with the specified ID. | Failed to obtain the details about the VPC with the specified ID. | Contact technical support. |
| 400 | SMS.0423 | The VPC with the specified ID is abnormal. | The VPC with the specified ID is abnormal. | Contact technical support. |
| 400 | SMS.0424 | The obtained list of disks on the target server has no content. | The obtained list of disks on the target server has no content. | Contact technical support. |
| 400 | SMS.0426 | Response body too long. Maximum length: %s | Response body too long. Maximum length: %s | Modify the maximum length limit in the configuration file. |
| 400 | SMS.0501 | Failed to report the task progress to SMS. | Failed to report the task progress to SMS. | Contact technical support. |
| 400 | SMS.0502 | Source server registration failed. Cause: %s | Source server registration failed. Cause: %s | Contact technical support. |
| 400 | SMS.0503 | Log upload failed. Cause: %s | Log upload failed. Cause: %s | Contact technical support. |

| Status Code | Error Code | Error Message | Description | Handling Measure |
|-------------|------------|---|---|--|
| 400 | SMS.0504 | Failed to obtain task details. Cause: %s | Failed to obtain task details. Cause: %s | Contact technical support. |
| 400 | SMS.0505 | Task %s not found. Check whether the task has been deleted. | Task %s not found. Check whether the task has been deleted. | If the task is not deleted, contact technical support. |
| 400 | SMS.0506 | Failed to obtain template details. Template ID: %s | Failed to obtain template details. Template ID: %s | Contact technical support. |
| 400 | SMS.0507 | Source server details deleted. Register it with SMS again. | Source server details deleted. Register it with SMS again. | Register the source server with SMS again. |
| 400 | SMS.0508 | Failed to obtain commands from the source server. Cause %s | Failed to obtain commands from source server %s. Cause: %s | Contact technical support. |
| 400 | SMS.0510 | Failed to update the replication status to %s. | Failed to update the replication status to %s. | Contact technical support. |
| 400 | SMS.0511 | Failed to obtain the private key. Cause: %s | Failed to obtain the private key. Cause: %s | Contact technical support. |
| 400 | SMS.0512 | Failed to update task details. | Failed to update task details. | Contact technical support. |
| 400 | SMS.0513 | Failed to add the subtask. | Failed to add the subtask. | Contact technical support. |

| Status Code | Error Code | Error Message | Description | Handling Measure |
|-------------|------------|--|--|--|
| 400 | SMS.0514 | Updating source server information failed. Cause: {0[0]} | Updating source server information failed. Cause: {0[0]} | Contact technical support. |
| 400 | SMS.0515 | Migration failed. Source disk information has changed. Delete target server configuration and restart the Agent. | Migration failed. Source disk information has changed. Delete target server configuration and restart the Agent. | Delete target server configuration and restart the Agent. |
| 400 | SMS.0516 | Failed to execute the synchronization task, because the I/O monitoring module failed to run. | Failed to execute the synchronization task, because the I/O monitoring module failed to run. | Contact technical support. |
| 400 | SMS.0519 | Not enough space. Delete target configuration, restart Agent, and expand target partition. | Not enough space. Delete target configuration, restart Agent, and expand target partition. | Delete target configuration, restart Agent, and expand target partition. |
| 400 | SMS.0601 | Target server creation failed. Cause: %s | Target server creation failed. Cause: %s | Contact ECS technical support. |
| 400 | SMS.0602 | VPC creation failed. Cause: %s | VPC creation failed. Cause: %s | Contact VPC technical support. |
| 400 | SMS.0603 | Security group creation failed. Cause: %s | Security group creation failed. Cause: %s | Contact VPC technical support. |

| Status Code | Error Code | Error Message | Description | Handling Measure |
|-------------|------------|--|--|---|
| 400 | SMS.0604 | Failed to add the security group rule. Cause: %s | Failed to add the security group rule. Cause: %s | Contact VPC technical support. |
| 400 | SMS.0605 | Subnet creation failed. Cause: %s | Subnet creation failed. Cause: %s | Contact VPC technical support. |
| 400 | SMS.0606 | No general-computing server flavors are available in this AZ. Select another flavor. | No general-computing server flavors are available in this AZ. Select another flavor. | Select another flavor. |
| 400 | SMS.0607 | cloud-region.json does not contain details about the current region. | cloud-region.json does not contain details about the current region. | Contact technical support. |
| 400 | SMS.0608 | Volume creation failed. Cause: %s | Volume creation failed. Cause: %s | Contact technical support. |
| 400 | SMS.0804 | File upload failed. | File upload failed. | Check whether the network is functional. |
| 400 | SMS.0805 | Failed to migrate partition %s to target server %s. | Failed to migrate partition %s to target server %s. | Handle the problem as instructed in the corresponding case. |
| 400 | SMS.0806 | Failed to synchronize partition %s to target server %s. | Failed to synchronize partition %s to target server %s. | Handle the problem as instructed in the corresponding case. |

| Status Code | Error Code | Error Message | Description | Handling Measure |
|-------------|------------|---|--|--|
| 400 | SMS.0807 | Network error between source and target servers. | The network between the source and target servers is abnormal. | Check whether the network is functional. |
| 400 | SMS.1101 | Failed to start target server %s. | Failed to start target server %s. | Contact technical support. |
| 400 | SMS.1102 | Failed to stop target server %s. | Failed to stop target server %s. | Contact technical support. |
| 400 | SMS.1103 | Failed to attach disk %s. Cause: %s | Failed to attach disk %s. Cause: %s | Contact technical support. |
| 400 | SMS.1104 | Failed to detach disk %s. Cause: %s | Failed to detach disk %s. Cause: %s | Contact technical support. |
| 400 | SMS.1105 | Disk creation failed. Cause: %s | Disk creation failed. Cause: %s | Contact technical support. |
| 400 | SMS.1106 | Failed to delete disk %s. Cause: %s | Failed to delete disk %s. Cause: %s | Contact technical support. |
| 400 | SMS.1107 | Failed to upload the private key and certificate to target server %s. Cause: %s | Failed to upload the private key and certificate to target server %s. Cause: %s | Contact technical support. |
| 400 | SMS.1108 | Failed to detach disk %s. | Failed to detach disk %s. | Contact technical support. |
| 400 | SMS.1109 | An exception occurred when the private key and certificate are uploaded to target server %s | An exception occurred when the private key and certificate are uploaded to target server %s. | Contact technical support. |

| Status Code | Error Code | Error Message | Description | Handling Measure |
|-------------|------------|--|--|----------------------------|
| 400 | SMS.1110 | Failed to attach disk %s. | Failed to attach disk %s. | Contact technical support. |
| 400 | SMS.1111 | Failed to start target server %s. Cause %s | Failed to start target server %s. Cause %s | Contact technical support. |
| 400 | SMS.1112 | Failed to stop target server %s. Cause: %s | Failed to stop target server %s. Cause: %s | Contact technical support. |
| 400 | SMS.1113 | Failed to reconfigure partition details on the target server. | Failed to reconfigure partition details on the target server. | Contact technical support. |
| 400 | SMS.1114 | Failed to send command to the target server. | Failed to send command to the target server. | Contact technical support. |
| 400 | SMS.1116 | Failed to set type for disk %s. Cause: %s | Failed to set type for disk %s. Cause: %s | Contact technical support. |
| 400 | SMS.1117 | Failed to generate the RSA key pair on the target server. | Failed to generate the RSA key pair on the target server. | Contact technical support. |
| 400 | SMS.1118 | Failed to query the content of file %s. | Failed to query the content of file %s. | Contact technical support. |
| 400 | SMS.1119 | Failed to restart SSHD on the target server. | Failed to restart SSHD on the target server. | Contact technical support. |
| 400 | SMS.1120 | Command execution on the Windows server failed. Cause: missing command or command parameter. | Command execution on the Windows server failed. Cause: missing command or command parameter. | Contact technical support. |

| Status Code | Error Code | Error Message | Description | Handling Measure |
|-------------|------------|--|--|---|
| 400 | SMS.1201 | %s not installed. | %s not installed. | Contact technical support. |
| 400 | SMS.1202 | Public agent image not registered in this region. Download the latest Agent. | Public agent image not registered in this region. Download the latest Agent. | Download the latest Agent. |
| 400 | SMS.1203 | Insufficient memory on the source server. | Insufficient memory on the source server. | Close programs on source server to release memory. |
| 400 | SMS.1204 | Failed to create a file on the source server. Cause: %s | Failed to create a file on the source server. Cause: %s | Contact technical support. |
| 400 | SMS.1205 | Failed to load WMI. Go to the official website to view the solution. | Failed to load WMI. Go to the official website to view the solution. | Handle the problem as instructed in the corresponding case. |
| 400 | SMS.1301 | Failed to write partition information to the configuration file. | Failed to write partition information to the configuration file. | Contact technical support. |
| 400 | SMS.1311 | Insufficient disks on the target server. | Insufficient disks on the target server. | Add disks to the target server. |
| 400 | SMS.1312 | Partition failed. Disk: %s. Cause: %s | Partition failed. Disk: %s. Cause: %s | Contact technical support. |
| 400 | SMS.1313 | Failed to create physical volume %s. Cause: %s | Failed to create physical volume %s. Cause: %s | Contact technical support. |

| Status Code | Error Code | Error Message | Description | Handling Measure |
|-------------|------------|---|---|--|
| 400 | SMS.1314 | Formatting failed. Partition: %s. Cause: %s | Formatting failed. Partition: %s. Cause: %s | Contact technical support. |
| 400 | SMS.1315 | Insufficient free space on target partition %s. | Insufficient free space on target partition %s. | Expand the partition capacity. |
| 400 | SMS.1401 | Failed to copy the I/O monitoring module. | Failed to copy the I/O monitoring module. | Contact technical support. |
| 400 | SMS.1402 | SSH client not installed. Install the openssh-clients package and check the installation with ssh -V. | SSH client not installed. Install the openssh-clients package and check the installation with ssh -V. | If the problem persists, contact technical support. |
| 400 | SMS.1403 | No grub file found. Find it under /boot. | No grub file found. Find it under /boot. | If there is no grub file under /boot, contact technical support. |
| 400 | SMS.1404 | Disk %s is abnormal. Expected status: %s | Disk %s is abnormal. Expected status: %s | Contact technical support. |
| 400 | SMS.1405 | Failed to obtain information about disk %s. Cause: %s | Failed to obtain information about disk %s. Cause: %s | Contact technical support. |
| 400 | SMS.1406 | Failed to obtain the EIP. Cause: %s | Failed to obtain the EIP. Cause: %s | Contact technical support. |
| 400 | SMS.1407 | Failed to obtain the target server specifications. Cause: %s | Failed to obtain the target server specifications. Cause: %s | Contact technical support. |

| Status Code | Error Code | Error Message | Description | Handling Measure |
|-------------|------------|--|--|----------------------------|
| 400 | SMS.1408 | Snapshot creation failed. Disk: %s. Cause: %s | Snapshot creation failed. Disk: %s. Cause: %s | Contact technical support. |
| 400 | SMS.1409 | Failed to delete snapshot %s. Cause: %s | Failed to delete snapshot %s. Cause: %s | Contact technical support. |
| 400 | SMS.1410 | Snapshot %s does not exist. | Snapshot %s does not exist. | Contact technical support. |
| 400 | SMS.1411 | Snapshot %s is in the %s state. | Snapshot %s is in the %s state. | Contact technical support. |
| 400 | SMS.1412 | Snapshot %s rollback failed. Cause: %s | Snapshot %s rollback failed. Cause: %s | Contact technical support. |
| 400 | SMS.1413 | Failed to obtain the status of snapshot %s. Cause: %s | Failed to obtain the status of snapshot %s. Cause: %s | Contact technical support. |
| 400 | SMS.1414 | The migration module stopped abnormally and cannot synchronize data. | The migration module stopped abnormally and cannot synchronize data. | Contact technical support. |
| 400 | SMS.1423 | Failed to obtain details about snapshot {0[0]}. Cause: {0[1]} | Failed to obtain details about snapshot {0[0]}. Cause: {0[1]} | Contact technical support. |
| 400 | SMS.1501 | OS version not supported. | OS version not supported. | Contact technical support. |

| Status Code | Error Code | Error Message | Description | Handling Measure |
|-------------|------------|--|--|----------------------------|
| 400 | SMS.1502 | Target server %s is abnormal. Expected status: %s | Target server %s is abnormal. Expected status: %s | Contact technical support. |
| 400 | SMS.1503 | Disk %s is not the system boot disk. | Disk %s is not the system boot disk. | Contact technical support. |
| 400 | SMS.1504 | The sizes of disks on the target server do not match those on the source server. | The sizes of disks on the target server do not match those on the source server. | Contact technical support. |
| 400 | SMS.1505 | No boot partition found. | No boot partition found. | Contact technical support. |
| 400 | SMS.1506 | No boot disk found. | No boot disk found. | Contact technical support. |
| 400 | SMS.1507 | No system partition found. | No system partition found. | Contact technical support. |
| 400 | SMS.1508 | Mount point, partition, or disk configured in disk.cfg not found. | Mount point, partition, or disk configured in disk.cfg not found. | Check the disk.cfg file. |
| 400 | SMS.1509 | Invalid disk.cfg file. | Invalid disk.cfg file. | Check the disk.cfg file. |
| 400 | SMS.1510 | Configure advanced option %s failed. Cause: %s. | Configure advanced option %s failed. Cause: %s | Check the settings. |
| 400 | SMS.1511 | Failed to check the consistency. Cause: %s | Failed to verify data consistency. Cause: %s | Contact technical support. |

| Status Code | Error Code | Error Message | Description | Handling Measure |
|-------------|------------|---|---|---|
| 400 | SMS.1701 | The installed Agent cannot migrate the server to this region. Install the latest Agent. | The installed Agent cannot migrate the server to this region. Install the latest Agent. | If the problem persists, contact technical support. |
| 400 | SMS.1702 | An error occurred when converting the string into the JSON format. | An error occurred when converting the string into the JSON format. | Contact technical support. |
| 400 | SMS.1801 | Migration or synchronization task failed. | Migration or synchronization task failed. | Contact technical support. |
| 400 | SMS.1802 | Migration or synchronization task paused. | Migration or synchronization task paused. | Contact technical support. |
| 400 | SMS.1805 | Migration or synchronization task failed because memory allocation on the target server failed. | The migration or synchronization task failed because memory allocation on the target server failed. | Contact technical support. |
| 400 | SMS.1807 | Failed to connect to the target server. Check whether its IP address %s is reachable and confirm that port 8900 is enabled. | Failed to connect to the target server. Check whether its IP address %s is reachable and confirm that port 8900 is enabled. | If the connection still fails, contact technical support. |
| 400 | SMS.1901 | Agent could not read disk information. | Agent could not read disk information. | Contact technical support. |

| Status Code | Error Code | Error Message | Description | Handling Measure |
|-------------|------------|---|---|----------------------------|
| 400 | SMS.1902 | Failed to start the I/O monitoring module. | Failed to start the I/O monitoring module. | Contact technical support. |
| 400 | SMS.1903 | No valid block data found. | No valid block data found. | Contact technical support. |
| 400 | SMS.1904 | Failed to create a snapshot for the Windows server. | Failed to create a snapshot for the Windows server. | Contact technical support. |
| 400 | SMS.1905 | Failed to read the disk information. | Failed to read the disk information. | Contact technical support. |
| 400 | SMS.1907 | Failed to send the migration command. | Failed to send the migration command. | Contact technical support. |
| 400 | SMS.1908 | Data transmission failed. | Data transmission failed. | Contact technical support. |
| 400 | SMS.1909 | Data compression failed. | Data compression failed. | Contact technical support. |
| 400 | SMS.1910 | Failed to obtain the I/O monitoring data. | Failed to obtain the I/O monitoring data. | Contact technical support. |
| 400 | SMS.1911 | Boot sector read error. | Boot sector read error. | Contact technical support. |
| 400 | SMS.2003 | Volume reconfiguration failed. | Volume reconfiguration failed. | Contact technical support. |
| 400 | SMS.2004 | Failed to back up volume sector details on the target server. | Failed to back up volume sector details on the target server. | Contact technical support. |
| 400 | SMS.2007 | Failed to write data to disks on the target server. | Failed to write data to disks on the target server. | Contact technical support. |

| Status Code | Error Code | Error Message | Description | Handling Measure |
|-------------|------------|---|---|----------------------------|
| 400 | SMS.2009 | Data decompression failed. | Data decompression failed. | Contact technical support. |
| 400 | SMS.2011 | Failed to receive data. | Failed to receive data. | Contact technical support. |
| 400 | SMS.2012 | Failed to read or parse the volume information from the configuration file. | Failed to read or parse the volume information from the configuration file. | Contact technical support. |
| 400 | SMS.2013 | Failed to open the disk. | Failed to open the disk. | Contact technical support. |
| 400 | SMS.2014 | Failed to hide the partition information. | Failed to hide the partition information. | Contact technical support. |
| 400 | SMS.2015 | Failed to restore the partition information. | Failed to restore the partition information. | Contact technical support. |
| 400 | SMS.2016 | Drive letter restoration failed. | Drive letter restoration failed. | Contact technical support. |
| 400 | SMS.2017 | Failed to traverse all volumes. | Failed to traverse all volumes. | Contact technical support. |
| 400 | SMS.2018 | Error in reading the volume boot sector. | Error in reading the volume boot sector. | Contact technical support. |
| 400 | SMS.2101 | Registry modification failed. | Registry modification failed. | Contact technical support. |
| 400 | SMS.2102 | Failed to modify the device information. | Failed to modify the device information. | Contact technical support. |
| 400 | SMS.2103 | Failed to set active partitions. | Failed to set active partitions. | Contact technical support. |

| Status Code | Error Code | Error Message | Description | Handling Measure |
|-------------|------------|--|--|---|
| 400 | SMS.2104 | Failed to modify BCD configuration. | Failed to modify BCD configuration. | Contact technical support. |
| 400 | SMS.2105 | Failed to modify boot configuration file. | Failed to modify boot configuration file. | Contact technical support. |
| 400 | SMS.2201 | Failed to clear disk information. | Failed to clear disk information. | Contact technical support. |
| 400 | SMS.2202 | Failed to convert the format of disk %s. | Failed to convert the format of disk %s. | Contact technical support. |
| 400 | SMS.2203 | Failed to create partition %s. | Failed to create partition %s. | Contact technical support. |
| 400 | SMS.2204 | Failed to format partition %s. | Failed to format partition %s. | Contact technical support. |
| 400 | SMS.2205 | Failed to update the partition information. | Failed to update the partition information. | Contact technical support. |
| 400 | SMS.2301 | Failed to start ntcldst. | Failed to start ntcldst. | Contact technical support. |
| 400 | SMS.2802 | Failed to connect to the target server. Check whether its IP address %s is reachable and port 8899 is enabled. | Failed to connect to the target server. Check whether its IP address %s is reachable and port 8899 is enabled. | If the connection still fails, contact technical support. |
| 400 | SMS.3101 | Failed to modify the configuration file of the target server. Cause: %s | Failed to modify the configuration file of the target server. Cause: %s | Contact technical support. |

| Status Code | Error Code | Error Message | Description | Handling Measure |
|-------------|------------|--|--|----------------------------|
| 400 | SMS.3102 | Failed to modify the initrd file on the target server. Cause: %s | Failed to modify the initrd file on the target server. Cause: %s | Contact technical support. |
| 400 | SMS.3103 | Failed to execute bootloader on the target server. Cause: %s | Failed to execute bootloader on the target server. Cause: %s | Contact technical support. |
| 400 | SMS.3104 | Failed to read /etc/fstab on the source server. Cause: %s | Failed to read /etc/fstab on the source server. Cause: %s | Contact technical support. |
| 400 | SMS.3202 | Failed to create volume group %s. Cause: %s | Failed to create volume group %s. Cause: %s | Contact technical support. |
| 400 | SMS.3203 | Failed to create logical volume %s. Cause: %s | Failed to create logical volume %s. Cause: %s | Contact technical support. |
| 400 | SMS.3204 | Failed to create swap partition %s. Cause: %s | Failed to create swap partition %s. Cause: %s | Contact technical support. |
| 400 | SMS.3205 | Failed to mount partition %s to directory %s. Cause: %s | Failed to mount partition %s to directory %s. Cause: %s | Contact technical support. |
| 400 | SMS.3206 | Failed to obtain the UUID of the partition on the target server. Cause: %s | Failed to obtain the UUID of the partition on the target server. Cause: %s | Contact technical support. |

| Status Code | Error Code | Error Message | Description | Handling Measure |
|-------------|------------|---|---|--------------------------------|
| 400 | SMS.3207 | Failed to create file %s on the target server. Cause: %s | Failed to create file %s on the target server. Cause: %s | Contact technical support. |
| 400 | SMS.3208 | Failed to write file %s on the target server. Cause: %s | Failed to write file %s on the target server. Cause: %s | Contact technical support. |
| 400 | SMS.3209 | Failed to assign execution permission to the script on the target server. Cause: %s | Failed to assign execution permission to the script on the target server. Cause: %s | Contact technical support. |
| 400 | SMS.3210 | Failed to format partition {0[0]} to {0[1]}. Cause: {0[2]} | Failed to format partition {0[0]} to {0[1]}. Cause: {0[2]} | Contact technical support. |
| 400 | SMS.3300 | Failed to read the configuration file for Linux block-level migration. | Failed to read the configuration file for Linux block-level migration. | Download the latest Agent. |
| 400 | SMS.3301 | Failed to load the SSL certificate. | Failed to load the SSL certificate. | Create a migration task again. |
| 400 | SMS.3401 | Download of RSA public and private keys failed. HTTP Status Code: %s | Download of RSA public and private keys failed. HTTP Status Code: %s | Contact technical support. |
| 400 | SMS.3402 | Download of RSA public and private keys failed. | Download of RSA public and private keys failed. | Contact technical support. |

| Status Code | Error Code | Error Message | Description | Handling Measure |
|-------------|------------|--|--|--------------------------------|
| 400 | SMS.3802 | Failed to establish an SSH connection with the target server. | Failed to establish an SSH connection with the target server. | Check the network. |
| 400 | SMS.3803 | The connection to the target server failed, because an error occurred during the public key verification on the target server. | The connection to the target server failed, because an error occurred during the public key verification on the target server. | Contact technical support. |
| 400 | SMS.3804 | The connection to the target server failed due to invalid connection credential. | The connection to the target server failed due to invalid connection credential. | Contact technical support. |
| 400 | SMS.3805 | The connection to the target server timed out. | The connection to the target server timed out. | Check the network. |
| 400 | SMS.3806 | The connection to the target server was rejected. | The connection to the target server was rejected. | Contact technical support. |
| 400 | SMS.3807 | Failed to upload the file to the target server. | Failed to upload the file to the target server. | Contact technical support. |
| 400 | SMS.3808 | Failed to ping target server. | Failed to ping target server. | Check the network environment. |
| 400 | SMS.5101 | Agent installation failed. | Agent installation failed. | Contact technical support. |

| Status Code | Error Code | Error Message | Description | Handling Measure |
|-------------|------------|---|---|--|
| 400 | SMS.5102 | Agent startup failed because the noexec permission is unavailable on /tmp in Linux. | Agent startup failed because the noexec permission is unavailable on /tmp in Linux. | Grant the noexec permission to the /tmp directory. |
| 400 | SMS.5103 | Agent startup failed due to insufficient space on /tmp in Linux. | Agent startup failed due to insufficient space on /tmp in Linux. | Increase the size of /tmp. |
| 400 | SMS.5104 | Failed to paste AK or SK. | Failed to paste AK or SK. | Restart the Agent. |
| 400 | SMS.5105 | Agent startup failed because the current shell character set is wrong. | Agent startup failed because the current shell character set is wrong. | Set the coding mode of the character set to UTF-8. |
| 400 | SMS.5106 | Internal error. Failed to create a temporary directory. | Internal error. Failed to create a temporary directory. | Run the Agent as administrator. |
| 400 | SMS.5107 | Failed to open the file for writing. | Failed to open the file for writing. | Contact technical support. |
| 400 | SMS.5108 | Failed to execute df - TH. | Failed to execute df - TH. | Check whether a mounted device is offline or does not exist. |
| 400 | SMS.5109 | The application cannot be started due to incorrect parallel configuration. | The application cannot be started due to incorrect parallel configuration. | Run SMSAgentDeploy.exe directly. |
| 400 | SMS.5110 | The Windows Agent unable to launch. | The Windows Agent unable to launch. | Unlock the file and try again. |

| Status Code | Error Code | Error Message | Description | Handling Measure |
|-------------|------------|---|---|--|
| 400 | SMS.5111 | Agent startup failed. Multiple volume groups found with the same name. | Agent startup failed. Multiple volume groups found with the same name. | Contact technical support. |
| 400 | SMS.5301 | Booting with GRUB failed. | Booting with GRUB failed. | Reinstall the GRUB bootloader. |
| 400 | SMS.5302 | Failed to install the KVM driver. | Failed to install the KVM driver. | Uninstall the Xen driver and install the KVM driver. |
| 400 | SMS.5401 | Disks of the Windows target server are offline. | Disks of the Windows target server are offline. | Bring the disks online manually. |
| 400 | SMS.5402 | Network error on the target server running Windows 2003. | Network error on the target server running Windows 2003. | Use another migration method. |
| 400 | SMS.5403 | Progress is slow or suspended. | Progress is slow or suspended. | Check whether the bandwidth is too low. |
| 400 | SMS.5404 | The target server running CentOS 6.x cannot access the Internet. | The target server running CentOS 6.x cannot access the Internet. | Contact technical support. |
| 400 | SMS.5601 | The disk usage changes greatly after migration. | The disk usage changes greatly after migration. | Contact technical support. |
| 400 | SMS.5602 | Time error occurred in the target server running Linux. | Time error occurred in the target server running Linux. | Use NTP for time synchronization. |

| Status Code | Error Code | Error Message | Description | Handling Measure |
|-------------|------------|--|--|---|
| 400 | SMS.5603 | The target server running Windows cannot access the Internet. | The target server running Windows cannot access the Internet. | Reinstall the NIC driver. |
| 400 | SMS.5604 | The MySQL service on the target server cannot be started. | The MySQL service on the target server cannot be started. | Stop services and synchronize data again. |
| 400 | SMS.5605 | After the migration is complete, the target server starts and the System Recovery Options window is displayed. | After the migration is complete, the target server starts and the System Recovery Options window is displayed. | Contact technical support. |
| 400 | SMS.5606 | Windows fails to start because the Xen driver is abnormal. | Windows fails to start because the Xen driver is abnormal. | Contact technical support. |
| 400 | SMS.6000 | Service error. | Service error. | Contact technical support. |
| 400 | SMS.6001 | The source server name is a required field. | The source server name is a required field. | Specify the source server name. |
| 400 | SMS.6002 | Source server names must consist of 4 to 20 characters. | Source server names must consist of 4 to 20 characters. | Specify a source server name containing 4 to 20 characters. |
| 400 | SMS.6003 | Uppercase letters, lowercase letters, and digits are allowed. | Uppercase letters, lowercase letters, and digits are allowed. | Specify a source server name with uppercase letters, lowercase characters, or digits. |

| Status Code | Error Code | Error Message | Description | Handling Measure |
|-------------|------------|--|---|--|
| 400 | SMS.6004 | Invalid subtask name. | Invalid subtask name. | Enter a valid subtask name. |
| 400 | SMS.6005 | The status of the sourceServer does not meet the requirements. | The source server status does not meet requirements. | Contact technical support. |
| 400 | SMS.6010 | The request body is not in the JSON format. | The request body is not in the JSON format. | Set the request body as required. |
| 400 | SMS.6011 | The JSON request body does not meet the specifications. | The JSON request body does not meet the specifications. | Set the request body as required. |
| 400 | SMS.6012 | Empty request body. | Empty request body. | Set the request body as required. |
| 400 | SMS.6013 | Incomplete request parameters. | Incomplete request parameters. | Check whether all required parameters are included. |
| 400 | SMS.6014 | The parameter part in the request body is too long. | The parameter part in the request body is too long. | Modify the request parameters. |
| 400 | SMS.6015 | The request header is missing. | The request header is missing. | Add a request header. |
| 400 | SMS.6016 | The header type must be application/json. | The header type must be application/json. | Ensure that the request header type is application/json. |
| 400 | SMS.6020 | The command name is missing. | The command name is missing. | Contact technical support. |

| Status Code | Error Code | Error Message | Description | Handling Measure |
|-------------|------------|--|--|--|
| 400 | SMS.6021 | The command from the Agent is inconsistent with that from SMS. | The command from the Agent is inconsistent with that from SMS. | Enter the command from SMS correctly. |
| 400 | SMS.6022 | Incorrect result format. | Incorrect result format. | Set the result in the correct format. |
| 400 | SMS.6023 | Incorrect result_detail format. | Incorrect result_detail format. | Set result_detail in the correct format. |
| 400 | SMS.6030 | Invalid source server ID. | Invalid source server ID. | Enter a correct source server ID. |
| 400 | SMS.6031 | The target server information is missing. | The target server information is missing. | Enter the required target server information. |
| 400 | SMS.6032 | The target server ID is missing. | The target server ID is missing. | Enter the target server ID. |
| 400 | SMS.6033 | The disk information is missing. | The disk information is missing. | Enter the disk information of the target server. |
| 400 | SMS.6034 | Invalid region name. | Invalid region name. | Enter a valid region name. |
| 400 | SMS.6035 | Domain ID is missing. | Domain ID is missing. | Enter the domain ID. |
| 400 | SMS.6101 | Invalid migration progress. | Invalid migration progress. | Enter an integer ranging from 0 to 100. |
| 400 | SMS.6102 | Parameters do not meet the JSON format requirements. | Parameters do not meet the JSON format requirements. | Check whether the JSON format is correct. |
| 400 | SMS.6103 | Disk ID is missing. | Disk ID is missing. | Enter a disk ID. |

| Status Code | Error Code | Error Message | Description | Handling Measure |
|-------------|------------|--|--|---------------------------------|
| 400 | SMS.6104 | Physical volume name is missing. | Physical volume name is missing. | Enter a volume name. |
| 400 | SMS.6105 | Physical volume size is missing or invalid. | Physical volume size is missing or invalid. | Enter a valid volume size. |
| 400 | SMS.6301 | Database read or write error. | Database read or write error. | Contact technical support. |
| 400 | SMS.6302 | No migration speed limit found. | No migration speed limit found. | Reset the migration speed limit |
| 400 | SMS.6303 | The installed Agent is of an earlier version. Download the latest version. | The installed Agent is of an earlier version. Download the latest version. | Download the latest version. |
| 400 | SMS.6304 | Fail to get config information. | Fail to get configuration information. | Contact technical support. |
| 400 | SMS.6401 | Unsupported encoding mode. | Unsupported encoding mode. | Use a correct encoding mode. |
| 400 | SMS.6402 | The algorithm does not exist. | The algorithm does not exist. | Contact technical support. |
| 400 | SMS.6403 | Failed to split into strings of the specified size. | Failed to split into strings of the specified size. | Contact technical support. |
| 400 | SMS.6404 | An error occurred during integer conversion. | An error occurred during integer conversion. | Contact technical support. |
| 400 | SMS.6405 | Invalid time format. | Invalid time format. | Check the time format. |
| 400 | SMS.6407 | Current quota is not enough, please use MgC. | Insufficient quota. Please use MgC. | Use MgC for migration. |

| Status Code | Error Code | Error Message | Description | Handling Measure |
|-------------|------------|---|---|--|
| 400 | SMS.6501 | You can add up to 1,000 source servers. | You can add up to 1,000 source servers. | Delete the source servers that have been migrated. |
| 400 | SMS.6502 | Environment check cannot be performed on the source server in the CHECKING state. | Environment check cannot be performed on the source server in the CHECKING state. | Contact technical support. |
| 400 | SMS.6503 | Failed to obtain the OS version of the source server. | Failed to obtain the OS version of the source server. | Enter the OS version of the source server. |
| 400 | SMS.6504 | Unsupported source server OS version or firmware type. | Unsupported source server OS version or firmware type. | Review which source server OSs and firmware types are supported. |
| 400 | SMS.6505 | Unknown source firmware type. It must be BIOS or UEFI. | Unknown source firmware type. It must be BIOS or UEFI. | Use another migration method. |
| 400 | SMS.6506 | Failed to obtain the number of source server CPUs. | Failed to obtain the number of source server CPUs. | Contact technical support. |
| 400 | SMS.6507 | Failed to open the system directory of the source server. | Failed to open the system directory of the source server. | Contact technical support. |
| 400 | SMS.6508 | Incompatible disk format on the source server. Only GPT and MBR are compatible. | Incompatible disk format on the source server. Only GPT and MBR are compatible. | Use another migration method. |

| Status Code | Error Code | Error Message | Description | Handling Measure |
|-------------|------------|---|---|--|
| 400 | SMS.6509 | Incompatible file system of the source server. | Incompatible file system of the source server. | Use another migration method. |
| 400 | SMS.6510 | The source server OS is an OEM system. | The source server OS is an OEM system. | Activate the system after migration. |
| 400 | SMS.6511 | The source server lacks driver files. | The source server lacks driver files. | Contact technical support. |
| 400 | SMS.6512 | The system services required for the migration on the source server are not running normally. | The system services required for the migration on the source server are not running normally. | Contact technical support. |
| 400 | SMS.6513 | No administrator permissions on the source server. | No administrator permissions on the source server. | Check whether the current account has the administrator permissions. |
| 400 | SMS.6514 | Failed to obtain the memory size of the source server. | Failed to obtain the memory size of the source server. | Contact technical support. |
| 400 | SMS.6515 | The source server is paravirtualized. | The source server is paravirtualized. | Use another migration method. |
| 400 | SMS.6516 | The Linux bootloader must be GRUB. | The Linux bootloader must be GRUB. | Check whether the Linux bootloader is GRUB. |
| 400 | SMS.6517 | rsync not installed on the source server. | rsync not installed on the source server. | Install rsync on the source server. |

| Status Code | Error Code | Error Message | Description | Handling Measure |
|-------------|------------|--|--|---|
| 400 | SMS.6518 | The source server has a raw device. | The source server has a raw device. | Use another migration method. |
| 400 | SMS.6519 | Failed to obtain disk information. | Failed to obtain disk information. | Contact technical support. |
| 400 | SMS.6520 | The source server is not in the AVAILABLE state. | The source server is not in the AVAILABLE state. | Check the source server status. |
| 400 | SMS.6521 | Token-based authentication failed. | Token-based authentication failed. | Use the correct token. |
| 400 | SMS.6522 | The X-Auth-Token header field is missing. | The X-Auth-Token header field is missing. | Add X-Auth-Token. |
| 400 | SMS.6523 | Apply for the permission required to operate SMS. | Apply for the permission required to operate SMS. | Ensure that you have the sms_administrator permission. |
| 400 | SMS.6524 | This operation is not allowed because you are not an OBT user. | This operation is not allowed because you are not an OBT user. | Join the OBT. |
| 400 | SMS.6525 | Insufficient balance. | Insufficient balance. | Ensure that the account balance is no less than ¥100 CNY. |
| 400 | SMS.6526 | Insufficient quota to clone the target server. | Insufficient quota to clone the target server. | Increase the cloud server quota. |
| 400 | SMS.6527 | The resource in the task does not belong to you. | The resource in the task does not belong to you. | Check the resources that belong to you. |

| Status Code | Error Code | Error Message | Description | Handling Measure |
|-------------|------------|--|--|---|
| 400 | SMS.6528 | Complete real-name authentication to invoke the SMS APIs. | Complete real-name authentication to invoke the SMS APIs. | Complete real-name authentication first. |
| 400 | SMS.6529 | SMS API call failed. Your account is in arrears. | SMS API call failed. Your account is in arrears. | Ensure that the account balance is no less than ¥100 CNY. |
| 400 | SMS.6530 | Invalid source server IP address. | Invalid source server IP address. | Enter a correct source server IP address. |
| 400 | SMS.6531 | The boot partition does not exist. | The boot partition does not exist. | Check whether the boot partition of the source server exists. |
| 400 | SMS.6532 | The system disk must be on the first disk. | The system disk must be on the first disk. | Check whether the system disk is on the first disk. |
| 400 | SMS.6533 | VSS not installed on the source server. | VSS not installed on the source server. | Check whether VSS has been installed and started. |
| 400 | SMS.6534 | No system directory information read. | No system directory information read. | Contact technical support. |
| 400 | SMS.6535 | Servers booted with UEFI do not support auto-creation of target servers for migration. | Servers booted with UEFI do not support auto-creation of target servers for migration. | Create a target ECS booted with UEFI and select the ECS as the target server. |
| 400 | SMS.6536 | The source server runs Windows 2003. Network may be unavailable after migration. | The source runs Windows Server 2003. Network may be unavailable after migration. | Upgrade the system and perform the migration. |

| Status Code | Error Code | Error Message | Description | Handling Measure |
|-------------|------------|---|---|--|
| 400 | SMS.6537 | SMS cannot migrate system disks larger than 1 TB. | SMS cannot migrate system disks larger than 1 TB. | Decrease the size of the source system disk. |
| 400 | SMS.6538 | The new partition or logical volume size is less than the used space size. | The new partition or logical volume size is less than the used space size. | Ensure that the new partition or logical volume size is at least 1 GB larger than the used space size. |
| 400 | SMS.6540 | Partitions on target servers running Windows cannot be reduced. | Partitions on target servers running Windows cannot be reduced. | Resize the partitions on source disks and restart the Agent |
| 400 | SMS.6544 | Network condition for migration is poor. | Network condition for migration is poor. | Contact technical support. |
| 400 | SMS.6547 | Excessive read/write latency has been detected for the source disks. It may slow down the migration or synchronization. | Excessive read/write latency has been detected for the source disks. It may slow down the migration or synchronization. | Optimize the disk performance. |
| 400 | SMS.6548 | The migration network performs poorly. It may slow down the migration or synchronization. | The migration network performs poorly. It may slow down the migration or synchronization. | Optimize the network performance. |

| Status Code | Error Code | Error Message | Description | Handling Measure |
|-------------|------------|--|--|--|
| 400 | SMS.6560 | Failed to obtain the project-level token. | Failed to obtain the project-level token. | Contact technical support. |
| 400 | SMS.6561 | The target server is not booted with UEFI. Create a target server using the image whose boot mode is UEFI. | The target server is not booted with UEFI. Create a target server using the image whose boot mode is UEFI. | Create a target server using the image whose boot mode is UEFI. |
| 400 | SMS.6601 | Invalid OS type. | Invalid OS type. | Set <code>os_type</code> by referring to <i>SMS API Reference</i> . |
| 400 | SMS.6602 | Invalid target server EIP. | Invalid target server EIP. | Enter an IP address in the correct format. |
| 400 | SMS.6603 | The connection to SMS was lost. | The connection to SMS was lost. | Re-establish the connection between the source server and SMS. For details, see "Migration Network" in <i>SMS FAQs</i> . |
| 400 | SMS.6604 | Failed to obtain ACL or firewall details for the target server. | Failed to obtain ACL or firewall details for the target server. | Contact technical support. |
| 400 | SMS.6605 | ACL or security group configuration error. | ACL or security group configuration error. | Modify the ACL or security group configuration. |
| 400 | SMS.6610 | The OS in the task conflicts with the source server OS. | The OS in the task conflicts with the source server OS. | Check whether the OS in the task is consistent with the source server OS. |

| Status Code | Error Code | Error Message | Description | Handling Measure |
|-------------|------------|---|---|---------------------------------------|
| 400 | SMS.6611 | Insufficient partition space than required. | Insufficient partition space than required. | Increase the partition space. |
| 400 | SMS.6612 | Invalid partition size. The partition size must be an integer multiple of MB. | Invalid partition size. The partition size must be an integer multiple of MB. | Enter a valid partition size. |
| 400 | SMS.6613 | 33 MB of space must be reserved for GPT disks. | 33 MB of space must be reserved for GPT disks. | Reserve 33 MB of space for GPT disks. |
| 400 | SMS.6614 | The target disk space must be greater than the total space of all partitions. | The target disk space must be greater than the total space of all partitions. | Increase the target disk space. |
| 400 | SMS.6615 | The target server has been added to a migration task. | The target server has been added to a migration task. | Change another server. |
| 400 | SMS.6616 | The current OS does not support block-level migration. | The current OS does not support block-level migration. | Use another migration method. |
| 400 | SMS.6617 | The current kernel does not support block-level migration. | The current kernel does not support block-level migration. | Use another migration method. |
| 400 | SMS.6618 | Failed to obtain kernel details. | Failed to obtain kernel details. | Contact technical support. |
| 400 | SMS.7101 | Template does not exist. | Template does not exist. | Check whether the template exists. |

| Status Code | Error Code | Error Message | Description | Handling Measure |
|-------------|------------|---|---|---|
| 400 | SMS.7111 | All tasks associated with this template must be deleted first. | All tasks associated with this template must be deleted first. | Delete the associated tasks first. |
| 400 | SMS.7112 | Duplicate template name. | Duplicate template name. | Change the template name. |
| 400 | SMS.7301 | The specified migration project does not exist. | The specified migration project does not exist. | Check whether the migration project exists. |
| 400 | SMS.7303 | Invalid migration project parameters. | Invalid migration project parameters. | Check the project parameters. |
| 400 | SMS.7304 | The default migration project does not exist. | The default migration project does not exist. | Create a default migration project first. |
| 400 | SMS.7311 | All source servers associated with the migration project must be deleted first. | All source servers associated with the migration project must be deleted first. | Delete all associated source servers first. |
| 400 | SMS.7312 | Duplicate migration project name. | Duplicate migration project name. | Change the migration project name. |
| 400 | SMS.7313 | The default migration project already exists. | The default migration project already exists. | Contact technical support. |
| 400 | SMS.7321 | The region name in the template is inconsistent with that in the migration project. | The region name in the template is inconsistent with that in the migration project. | Contact technical support. |

| Status Code | Error Code | Error Message | Description | Handling Measure |
|-------------|------------|--|--|---|
| 400 | SMS.7501 | No application ID generated. | No application ID generated. | Contact technical support. |
| 400 | SMS.7602 | The specified source server does not exist. | The specified source server does not exist. | Check whether the source server exists. |
| 400 | SMS.7604 | Failed to generate the source server ID. | Failed to generate the source server ID. | Contact technical support. |
| 400 | SMS.7605 | There is a migration task on the source server. | There is a migration task on the source server. | Delete the task and create a new one. |
| 400 | SMS.7606 | No migration task running on the source server. | No migration task running on the source server. | Contact technical support. |
| 400 | SMS.7703 | Task does not exist. | Task does not exist. | Check whether the task exists. |
| 400 | SMS.7705 | An error occurred when processing JSON files during task creation. | An error occurred when processing JSON files during task creation. | Contact technical support. |
| 400 | SMS.7706 | Task update failed. | Task update failed. | Contact technical support. |
| 400 | SMS.7711 | Invalid task name. | Invalid task name. | Enter a valid task name. |
| 400 | SMS.7712 | Invalid task type. | Invalid task type. | Enter a valid task type. |
| 400 | SMS.7713 | Only tasks in the Ready for next, Paused, or Error state can be started. | Only tasks in the Ready for next, Paused, or Error state can be started. | Change the task status. |

| Status Code | Error Code | Error Message | Description | Handling Measure |
|-------------|------------|--|--|--|
| 400 | SMS.7714 | Only running tasks can be paused. | Only running tasks can be paused. | Change the task status. |
| 400 | SMS.7715 | Only tasks in the Finished state or in the Continuous synchronization stage can be synchronized. | Only tasks in the Finished state or in the Continuous synchronization stage can be synchronized. | Change the task status. |
| 400 | SMS.7716 | Logs can be collected only after the current log collection is completed. | Logs can be collected only after the current log collection is completed. | Wait until the current log collection is complete. |
| 400 | SMS.7717 | Logs can be collected after the migration task is started. | Logs can be collected after the migration task is started. | Start the task first. |
| 400 | SMS.7718 | Only tasks in the Synchronization failed state can be rolled back. | Only tasks in the Synchronization failed state can be rolled back. | Change the task status. |
| 400 | SMS.7719 | Tasks in current state cannot be deleted. | Tasks in current state cannot be deleted. | Change the task status. |
| 400 | SMS.7721 | Only target servers in tasks in the Continuous synchronization state can be cloned or started. | Only target servers in tasks in the Continuous synchronization state can be cloned or started. | Change the task status. |

| Status Code | Error Code | Error Message | Description | Handling Measure |
|-------------|------------|--|--|---|
| 400 | SMS.7722 | Only tasks where the target servers have successfully started can be restarted. | Only tasks where the target servers have successfully started can be restarted. | Check whether the target server for the task has been started successfully. |
| 400 | SMS.7723 | Failed to delete the task. Ensure that the Agent is connected. | Failed to delete the task. Ensure that the Agent is connected. | Ensure that the Agent is connected. |
| 400 | SMS.7724 | No project ID found. | No project ID found. | Contact technical support. |
| 400 | SMS.7725 | No region information found. | No region information found. | Contact technical support. |
| 400 | SMS.7726 | Failed to update the migration status or stage of the source server. Field copystate or migrationcycle is missing in the request body. | Failed to update the migration status or stage of the source server. The copystate or migrationcycle field is missing in the request body. | Add the copystate or migrationcycle field to the request body. |
| 400 | SMS.7727 | Failed to update the migration status or stage of the source server. Field copystate or migrationcycle in the request body is empty. | Failed to update the migration status or stage of the source server. The copystate or migrationcycle field in the request body is empty. | Specify a value for copystate or migrationcycle in the request body. |

| Status Code | Error Code | Error Message | Description | Handling Measure |
|-------------|------------|---|---|---|
| 400 | SMS.7728 | Change server replication state or migration cycle failed. Values of copystate and migrationcycle do not match. | Failed to update the migration status or stage for the source server. Fields copystate and migrationcycle do not match. | <p>Set copystate and migrationcycle according to the following rules:</p> <ul style="list-style-type: none"> • If the value of migrationcycle is checking, the value of copystate can be unavailable, waiting, or unconnected. • If the value of migrationcycle is setting, the value of copystate can be waiting or unconnected. • If the value of migrationcycle is replicating, the value of copystate can be initialize, replicate, deleting, stopping, error, stopped, or unconnected. • If the value of migrationcycle is syncing, the value of copystate can be syncing, cloning, deleting, stopping, error, stopped, or unconnected. • If the value of migrationcycle is |

| Status Code | Error Code | Error Message | Description | Handling Measure |
|-------------|------------|--|--|--|
| | | | | <p>cutovering, the value of copystate can be cutovering, deleting, stopping, error, stopped, or unconnected.</p> <ul style="list-style-type: none"> If the value of migrationcycle is cutovered, the value of copystate can be finished, deleting, stopping, error, stopped, or unconnected. |
| 400 | SMS.8101 | Failed to stop the target server. | Failed to stop the target server. | Contact technical support. |
| 400 | SMS.8102 | The target server is missing. | The target server is missing. | Set the parameter for the target server. |
| 400 | SMS.8103 | The target server does not exist. | The target server does not exist. | Check whether the server has been deleted. |
| 400 | SMS.8104 | Failed to obtain details about the target server. | Failed to obtain details about the target server. | Contact technical support. |
| 400 | SMS.8105 | Failed to obtain the details about disks on the target server. | Failed to obtain the details about disks on the target server. | Contact technical support. |
| 400 | SMS.8106 | Invalid information about disks on the target server. | Invalid information about disks on the target server. | Check whether the target disk information is correct. |

| Status Code | Error Code | Error Message | Description | Handling Measure |
|-------------|------------|--|--|--|
| 400 | SMS.8107 | No agent image found on the target server. | No agent image found on the target server. | Check whether the image has been deleted. |
| 400 | SMS.8108 | Disk attachment failed. | Disk attachment failed. | Contact technical support. |
| 400 | SMS.8109 | No source server found. | No source server found. | Check whether the server record has been deleted. |
| 400 | SMS.8110 | Disk detachment failed. | Disk detachment failed. | Contact technical support. |
| 400 | SMS.8111 | No disk information found. | No disk information found. | Check whether the target disk information is correct. |
| 400 | SMS.8112 | No snapshot information found. | No snapshot information found. | Check whether the snapshot exists. |
| 400 | SMS.8113 | The snapshot does not exist. | The snapshot does not exist. | Check whether the snapshot has been deleted. |
| 400 | SMS.8114 | Failed to unlock the target server. | Failed to unlock the target server. | Check whether you have the permission to perform this operation. |
| 400 | SMS.9001 | Invalid parameters. | Invalid parameters. | Check whether the parameters are correctly specified. |
| 400 | SMS.9002 | User tags are not supported. | User tags are not supported. | User tags are not supported temporarily. |
| 400 | SMS.9003 | Insufficient permissions. | Insufficient permissions. | Obtain corresponding fine-grained permissions. |

| Status Code | Error Code | Error Message | Description | Handling Measure |
|-------------|------------|---|---|--|
| 400 | SMS.9004 | The current account does not have the permission to execute policy {0}. | Insufficient permissions to perform {0}. | Obtain corresponding fine-grained permissions. |
| 400 | SMS.9005 | Failed to bind the enterprise project. | Failed to bind the enterprise project. | Contact technical support. |
| 400 | SMS.9905 | Password query is not allowed on tasks in the current state. | Password query is not supported for tasks in the current state. | Query passwords only when the task is in a replicating or syncing state. |
| 403 | SMS.6542 | Your account has been frozen! | Your account has been frozen. | Contact technical support. |

6.2 Status Codes

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

Table 6-1 Status codes

| Status Code | Error Message | Description |
|-------------|---------------------|---|
| 100 | Continue | The client continues sending the request. This interim response is used to inform the client that the initial part of the request has been received and has not yet been rejected by the server. |
| 101 | Switching Protocols | Switching protocols. The target protocol must be more advanced than the source protocol. For example, the current HTTP protocol is switched to a later version. |
| 200 | OK | The results of GET and PUT operations are returned as expected. |
| 201 | Created | The request for creating a resource has been fulfilled. |
| 202 | Accepted | The request has been accepted, but the processing has not been completed. |

| Status Code | Error Message | Description |
|-------------|-------------------------------|--|
| 203 | Non-Authoritative Information | The server successfully processed the request, but is returning information that may be from another source. |
| 204 | NoContent | The server has successfully processed the request, but has not returned any content. The status code is returned in response to an HTTP OPTIONS request. |
| 205 | Reset Content | The server has fulfilled the request, but the requester is required to reset the content. |
| 206 | Partial Content | The server has processed certain GET requests. |
| 300 | Multiple Choices | There are multiple options for the location of the requested resource. The response contains a list of resource characteristics and addresses from which the user or user agent (such as a browser) can choose the most appropriate one. |
| 301 | Moved Permanently | The requested resource has been assigned a new permanent URI, and the new URI is contained in the response. |
| 302 | Found | The requested resource resides temporarily under a different URI. |
| 303 | See Other | Retrieve a location. The response to the request can be found under a different URI and should be retrieved using a GET or POST method. |
| 304 | Not Modified | The requested resource has not been modified. In such a case, there is no need to retransmit the resource since the client still has a previously-downloaded copy. |
| 305 | Use Proxy | The requested resource must be accessed through a proxy. |
| 306 | Unused | The HTTP status code is no longer used. |
| 400 | BadRequest | Invalid request. The client should not repeat the request without modifications. |
| 401 | Unauthorized | The status code is returned after the client provides the authentication information, indicating that the authentication information is incorrect or invalid. |
| 402 | Payment Required | This status code is reserved for future use. |

| Status Code | Error Message | Description |
|-------------|-----------------------------|---|
| 403 | Forbidden | The server understood the request, but is refusing to fulfill it. The client should not repeat the request without modifications. |
| 404 | NotFound | The requested resource cannot be found. The client should not repeat the request without modifications. |
| 405 | MethodNotAllowed | The method specified in the request is not supported for the requested resource. The client should not repeat the request without modifications. |
| 406 | NotAcceptable | The server cannot fulfill the request according to the content characteristics of the request. |
| 407 | ProxyAuthenticationRequired | This status code is similar to 401, but indicates that the client must first authenticate itself with the proxy. |
| 408 | RequestTime-out | The request timed out. The client may repeat the request without modifications at any later time. |
| 409 | Conflict | The request cannot be processed due to a conflict. This status code indicates that the resource that the client attempts to create already exists, or the request fails to be processed because of the update of the conflict request. |
| 410 | Gone | The requested resource is no longer available. The status code indicates that the requested resource has been deleted permanently. |
| 411 | LengthRequired | The server refuses to process the request without a defined Content-Length. |
| 412 | PreconditionFailed | The server does not meet one of the preconditions that the requester puts on the request. |
| 413 | RequestEntityTooLarge | The request is larger than that a server is able to process. 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 header field. |
| 414 | Request-URITooLarge | The URI provided was too long for the server to process. |

| Status Code | Error Message | Description |
|-------------|---------------------------------|---|
| 415 | Unsupported Media Type | The server is unable to process the media format 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. |
| 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, it is advisable for the client to 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 cannot understand the request. |
| 501 | Not Implemented | The server does not support the requested function. |
| 502 | Bad Gateway | The server is acting as a gateway or proxy and receives an invalid request from a remote server. |
| 503 | ServiceUnavailable | The requested service is invalid. The client should not repeat the request without modifications. |
| 504 | ServerTimeout | The request cannot be fulfilled within a given time. This status code is returned to the client only when the Timeout parameter is specified in the request. |
| 505 | HTTP Version not supported | The server does not support the HTTP protocol version used in the request. |

In the message body, the error information is described in JSON format as follows:

```
{"error_code":"S3M.XXXX","error_msg":"Error description"}
```

6.3 Obtaining a Project ID

Scenarios

A project ID is required for some URLs when an API is called. Therefore, you need to obtain a project ID in advance. Two methods are available:

- [Obtain the Project ID by Calling an API](#)
- [Obtain a Project ID from the Console](#)

Obtaining a Project ID by Calling an API

You can obtain the project ID by calling the API used to [query projects based on specified criteria](#).

The API used to obtain a project ID is GET `https://{Endpoint}/v3/projects`. {Endpoint} is the IAM endpoint and can be obtained from Regions and Endpoints. For details about API authentication, see [Authentication](#).

The following is an example response. The value of `id` is the project ID.

```
{
  "projects": [
    {
      "domain_id": "65382450e8f64ac0870cd180d14e6xxx",
      "is_domain": false,
      "parent_id": "65382450e8f64ac0870cd180d14e6xxx",
      "name": "project_name",
      "description": "",
      "links": {
        "next": null,
        "previous": null,
        "self": "https://www.example.com/v3/projects/a4a5d4098fb4474fa22cd05f897d6xxx"
      },
      "id": "a4a5d4098fb4474fa22cd05f897d6xxx",
      "enabled": true
    }
  ],
  "links": {
    "next": null,
    "previous": null,
    "self": "https://www.example.com/v3/projects"
  }
}
```

Obtain a Project ID from the Console

To obtain a project ID from the console, perform the following operations:

1. Log in to the management console.
2. Hover the mouse over the username in the upper right corner and select **My Credentials** from the drop-down list.

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

A Change History

| Released On | Description |
|-------------|---|
| 2023-09-30 | This issue is the first official release. |