

# Server Migration Service

## API Reference

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# Contents

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<b>1 Before You Start.....</b>	<b>1</b>
<b>2 API Overview.....</b>	<b>3</b>
<b>3 Calling APIs.....</b>	<b>4</b>
3.1 Making an API Request.....	4
3.2 Authentication.....	8
3.3 Response.....	9
<b>4 Application Examples.....</b>	<b>12</b>
4.1 Creating a Migration Task.....	12
4.2 Starting a Migration Task.....	18
4.3 Pausing and Deleting a Migration Task.....	23
<b>5 API .....</b>	<b>28</b>
5.1 API Version Query.....	28
5.1.1 Listing API Versions.....	28
5.1.2 Querying an API Version.....	30
5.2 Agent Running.....	33
5.2.1 Obtaining the Agent Configuration Information.....	33
5.3 Source Server Management.....	35
5.3.1 Listing Failed Source Servers.....	35
5.3.2 Registering a Source Server with SMS.....	38
5.3.3 Listing Source Servers.....	58
5.3.4 Batch Deleting Source Server Records.....	88
5.3.5 Modifying the Name of a Specified Source Server.....	90
5.3.6 Updating the Migration Task Status of a Source Server.....	94
5.3.7 Deleting a Source Server Record.....	98
5.3.8 Querying a Source Server.....	100
5.3.9 Obtaining a Summary of Source Servers.....	121
5.3.10 Updating Disk Information.....	123
5.4 Task Management.....	135
5.4.1 Creating a Migration Task.....	135
5.4.2 Listing Migration Tasks.....	147
5.4.3 Batch Deleting Migration Tasks.....	161
5.4.4 Deleting a Migration Task.....	162

5.4.5 Querying Details About a Migration Task.....	164
5.4.6 Updating a Migration Task.....	183
5.4.7 Managing Migration Tasks.....	214
5.4.8 Reporting Migration Progress and Rate.....	217
5.4.9 Querying the Migration Rate Limiting Rules of a Migration Task.....	221
5.4.10 Setting Migration Rate Limiting Rules for a Migration Task.....	223
5.4.11 Unlocking a Target Server.....	226
5.4.12 Checking NICs and Security Groups.....	228
5.4.13 Querying a Certificate Passphrase.....	230
5.4.14 Uploading Migration Task Logs.....	231
5.5 Command Management.....	233
5.5.1 Obtaining Commands from SMS.....	233
5.5.2 Reporting Command Execution Results to SMS.....	237
5.6 Template Management.....	241
5.6.1 Creating a Template.....	242
5.6.2 Listing Templates.....	250
5.6.3 Batch Deleting Templates.....	260
5.6.4 Deleting a Template.....	261
5.6.5 Querying Details About a Template.....	263
5.6.6 Modifying a Template.....	270
5.6.7 Querying the Target Server Password in a Template.....	278
5.7 Key Management.....	280
5.7.1 Obtaining an SSL Certificate and Private Key.....	280
5.7.2 Calculating an SHA256 Value.....	284
5.8 Migration Project Management.....	286
5.8.1 Creating a Migration Project.....	286
5.8.2 Listing Migration Projects.....	290
5.8.3 Querying Details About a Migration Project.....	294
5.8.4 Deleting a Migration Project.....	302
5.8.5 Modifying a Migration Project.....	304
5.8.6 Changing the Default Migration Project.....	313
5.9 Network Measurement Management.....	315
5.9.1 Updating Network Measurement Information.....	315
5.10 Advanced Migration Options Management.....	318
5.10.1 Configuring Advanced Migration Options.....	318
5.10.2 Querying the Advanced Migration Options Configured for a Task.....	321
5.11 Privacy Agreement Management.....	325
5.11.1 Signing the Privacy Agreement.....	325
5.11.2 Querying Whether a User Has Signed the Privacy Agreement.....	327
<b>6 Appendix.....</b>	<b>329</b>
6.1 Error Codes.....	329
6.2 Status Codes.....	386

---

6.3 Obtaining a Project ID..... 390

# 1 Before You Start

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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](#).

## Concepts

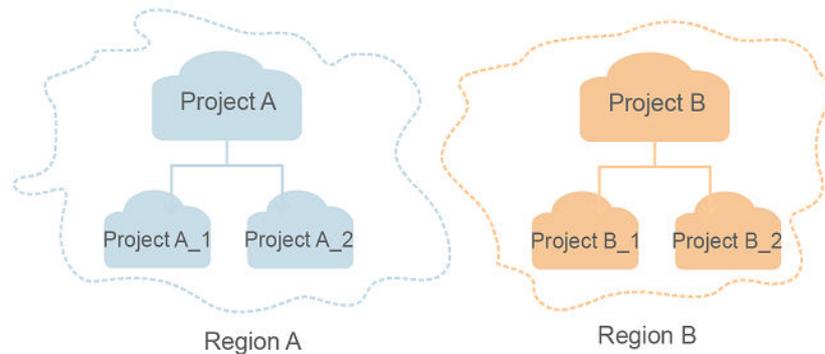
- Account  
An account is created upon successful registration. The account has full access permissions for all of its cloud services and resources. It can be used to reset user passwords and grant user permissions. The account is a payment entity, which should not be used directly to perform routine 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).  
The account name, username, and password are required for API authentication.
- 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. Compute, network, storage, and other resources in an AZ are logically divided into multiple clusters. AZs within a region are interconnected using high-speed optical fibers to allow you to build cross-AZ high-availability systems.

- Project

Projects group and isolate resources (including compute, storage, and network resources) across physical regions. A default project is provided for each region, and subprojects can be created under each default project. Users can be granted permissions to access all resources in a specific project. If you need more refined access control, create subprojects under a default project and 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 regions, 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 RESTful API request, and uses the IAM API for [creating an IAM user](#) as an example to demonstrate how to call an API.

### Request URI

A request URI is in the following format:

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

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

**Table 3-1** 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 where the REST service is deployed. The value varies depending on services and regions. Obtain the value from Regions and Endpoints. For example, the endpoint of IAM in the EU-Dublin region is <b>iam.myhuaweicloud.eu</b> .
resource-path	Access path of an API for performing a specified operation. Obtain the path from the URI of an API. For example, the resource path of the API used to obtain a user token is <b>/v3/auth/tokens</b> .
query-string	Query parameter, which is optional. Ensure that a question mark (?) is included before each query parameter that is in the format of " <i>Parameter name=Parameter value</i> ". For example, <b>?limit=10</b> indicates that a maximum of 10 data records will be displayed.

IAM is a global service. You can create an IAM user using the endpoint of IAM in any region. For example, to create an IAM user in the Europe-Dublin region, obtain the endpoint of IAM (iam.ap-southeast-1.myhuaweicloud.com/iam.myhuaweicloud.com) for this region and the **resource-path** (/v3.0/OS-USER/users) in the URI of the API used to **create an IAM User as the administrator**. Then, construct the URI as follows:

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

 **NOTE**

To simplify the URI display in this document, each API is provided only with a **resource-path** and a request method. The **URI-scheme** of all APIs is **HTTPS**, and the endpoints of all APIs in the same region are identical.

## Request Methods

The HTTP protocol defines the following request methods that can be used to send a request to the server.

**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/v3.0/OS-USER/users
```

## Request Header

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

**Table 3-3** describes common request header fields.

**Table 3-3** Common request header fields

Parameter	Description	Mandatory	Example
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 <b>https</b> is <b>443</b> .	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 <b>application/json</b> 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
X-Project-Id	Specifies the project ID. Obtain the project ID by following the instructions in <a href="#">Obtaining a Project ID</a> .	No This field is mandatory for requests that use AK/SK authentication in the Dedicated Cloud (DeC) scenario or multi-project scenario.	e9993fc787d94b6c886cb aa340f9c0f4

Parameter	Description	Mandatory	Example
X-Auth-Token	Specifies the user token. It is a response to the API for <b>obtaining a user token</b> (This is the only API that does not require authentication). After the request is processed, the value of <b>X-Subject-Token</b> in the response header is the token value.	No This field is mandatory for token authentication.	The following is part of an example token: MIIPAgYJKoZlhvcNAQc-Co...ggg1BBIINPXsidG9rZ

 **NOTE**

In addition to 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 following shows an example request of the API for [creating an IAM user](#) when AK/SK authentication is used:

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

### (Optional) Request Body

This part is optional. A request body is generally sent in a structured format (for example, JSON or XML), which is specified by **Content-Type** in the request header. It is used to transfer content other than the request header. If the request body contains full-width characters, these characters must be coded in UTF-8.

The request body varies depending on APIs. Certain APIs do not require the request body, such as the APIs requested using the GET and DELETE methods.

The following shows an example request (a request body included) of the API for [creating an IAM user](#). You can learn about request parameters and related description from this example. The bold parameters need to be replaced for a real request.

- **accountid**: account ID of an IAM user
- **username**: name of an IAM user
- **email**: email of an IAM user

- **\*\*\*\*\***: login password of an IAM user

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

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

If all data required 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:

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

### AK/SK Authentication

#### NOTE

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

In AK/SK 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, which is used together with an AK to sign requests cryptographically. It identifies a request sender and prevents the request from being modified.

In AK/SK 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.

## Token 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 the request header to get permissions for calling the API. You can obtain a token by calling the [Obtaining a User Token](#) API.

IMS is a project-level service. When you call the API, set **auth.scope** in the request body to **project**.

```
{
  "auth": {
    "identity": {
      "methods": [
        "password"
      ],
      "password": {
        "user": {
          "name": "username", //IAM user name
          "password": SADMIN_PASS, //IAM user password. You are advised to store it in ciphertext in
the configuration file or an environment variable and decrypt it when needed to ensure security.
          "domain": {
            "name": "domainname" // Name of the account that the IAM user belongs to
          }
        }
      }
    },
    "scope": {
      "project": {
        "name": "xxxxxxx" // Project name
      }
    }
  }
}
```

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

```
GET https://iam.myhuaweicloud.eu/v3/auth/projects
Content-Type: application/json
X-Auth-Token: ABCDEFGH....
```

## 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 [create an IAM user](#), 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 **create an IAM user**. 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 creating an IAM user

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

## (Optional) Response Body

The body of a response is often returned in structured format 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 **create an IAM user**. For the sake of space, only part of the content is displayed here.

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

If an error occurs during API calling, 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 created.

### 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\_SUCCESS** 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 API

---

## 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

None

#### Response

**Status code: 200**

**Table 5-1** Response body parameters

Parameter	Type	Description
versions	Array of <a href="#">Version</a> objects	The list of all SMS API versions. Array length: 0 to 1,024

**Table 5-2 Version** field description

Parameter	Type	Description
id	String	The API version. Minimum length: 0 characters Maximum length: 255 characters
links	Array of <a href="#">Link</a> objects	The API link address. Array length: 0 to 1,024
status	String	The version status. <b>CURRENT</b> indicates a widely used version. <b>DEPRECATED</b> indicates a deprecated version which may be deleted later Minimum length: 0 characters Maximum length: 255 characters
updated	String	The time when the version was updated. The format is yyyy-mm-ddThh:mm:ssZ. <b>T</b> is the separator between the calendar and the hourly notation of time. <b>Z</b> indicates the UTC time. For example, 2018-09-30T00:00:00Z Minimum length: 0 characters Maximum length: 255 characters

**Table 5-3 Link** field description

Parameter	Type	Description
href	String	The API URL. Minimum length: 0 characters Maximum length: 1,024 characters
rel	String	Its value is <b>self</b> , indicating that <b>href</b> 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/v3/"  
}],  
"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/v3/"  
    } ],  
    "id" : "v3",  
    "updated" : "2020-09-02T17:50:00Z",  
    "status" : "SUPPORTED"  
  } ]  
}
```

## Status Codes

Status Code	Description
200	OK

## 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 5-4** 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 5-5** Response body parameters

Parameter	Type	Description
id	String	The API version. Minimum length: 0 characters Maximum length: 255 characters
links	Array of <a href="#">Link</a> objects	The API link address. Array length: 0 to 1,024
status	String	The version status. <b>CURRENT</b> indicates a widely used version. <b>DEPRECATED</b> indicates a deprecated version which may be deleted later Minimum length: 0 characters Maximum length: 255 characters
updated	String	The time when the version was updated. The format is yyyy-mm-ddThh:mm:ssZ. <b>T</b> is the separator between the calendar and the hourly notation of time. <b>Z</b> indicates the UTC time. For example, 2018-09-30T00:00:00Z Minimum length: 0 characters Maximum length: 255 characters

**Table 5-6 Link field description**

Parameter	Type	Description
href	String	The API URL. Minimum length: 0 characters Maximum length: 1,024 characters
rel	String	Its value is <b>self</b> , indicating that <b>href</b> 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	OK

## 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 5-7** 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 <b>X-Subject-Token</b> in the response header is the user token. Minimum length: 1 character Maximum length: 16,384 characters

#### Response

**Status code: 200**

**Table 5-8** Response body parameters

Parameter	Type	Description
config	Map<String,String>	mainRegion, obs_domain, disktype, process_and_it, and information added.

Parameter	Type	Description
regions	Array of Map<String, Object> objects	The region array. Array length: 1 to 100

**Status code: 400**

**Table 5-9** 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 was 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 was 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 reported error messages.

### Calling Method

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

### URI

GET /v3/errors

**Table 5-10** Query parameters

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

Parameter	Mandatory	Type	Description
migproject	No	String	The ID of the migration project within 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 5-11** 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 <b>X-Subject-Token</b> in the response header is the user token. Minimum length: 1 character Maximum length: 16,384 characters

## Response

**Status code: 200**

**Table 5-12** Response body parameters

Parameter	Type	Description
count	Integer	The number of source servers that failed to be migrated due to errors. Minimum value: <b>0</b> Maximum value: <b>2147483647</b>
migration_errors	Array of <b>MigrationErrors</b> objects	The details of failed source servers. Array length: 0 to 65,535

**Table 5-13** 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 in SMS. 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" : "b5d13e46-fb5f-41da-952a-d7a38c1e47fd",
    "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" : "e7029ea3-fec8-49ca-9cae-9158af0d8419",
    "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" : "c4d1d596-24c2-49ec-9fcf-32e9d28f750d",
    "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" : "490d5aac-f8de-4479-811e-72ed30834be4",
    "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	OK

## 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 a 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 5-14** 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 <b>X-Subject-Token</b> in the response header is the user token. Minimum length: 1 character Maximum length: 16,384 characters

**Table 5-15** 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	Yes	String	The IP address of the source server. This parameter is mandatory for source server registration and optional for source server updates. Minimum length: 0 characters Maximum length: 255 characters
name	Yes	String	The source server name in SMS. 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 source server registration and optional for source server updates. Minimum length: 0 characters Maximum length: 255 characters
os_type	Yes	String	The OS type of the source server. This parameter is mandatory for source server registration and optional for source server updates. Minimum length: 0 characters Maximum length: 255 characters The value can be: <ul style="list-style-type: none"> <li>• <b>Windows</b></li> <li>• <b>Linux</b></li> </ul>
os_version	No	String	The OS version. This parameter is mandatory for registration and optional for updates. 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. Minimum length: 0 characters Maximum length: 255 characters The value can be: <ul style="list-style-type: none"> <li>• <b>BIOS</b></li> <li>• <b>UEFI</b></li> </ul>

Parameter	Mandatory	Type	Description
cpu_quantity	No	Integer	The number of vCPUs. Minimum value: <b>0</b> Maximum value: <b>65535</b>
memory	No	Long	The memory size, in MB. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
disks	No	Array of <b>ServerDisk</b> objects	The disk information of the source server. Array length: 0 to 65,535
btrfs_list	No	Array of <b>BtrfsFileSystem</b> 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
networks	No	Array of <b>NetWork</b> objects	The information about NICs on the source server. Array length: 0 to 65,535
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

Parameter	Mandatory	Type	Description
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.
boot_loader	No	String	The system boot loader, which can be GRUB or LILO. This parameter is mandatory for Linux. The value can be: <ul style="list-style-type: none"> <li>• <b>GRUB</b></li> <li>• <b>LILO</b></li> </ul>
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 <b>VolumeGroups</b> 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
agent_version	Yes	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

Parameter	Mandatory	Type	Description
migration_cycle	No	String	<p>The current migration stage of the source server.</p> <p><b>cutovering:</b> The target server for the source server is being launched.</p> <p><b>cutovered:</b> The target server for the source server is launched.</p> <p><b>checking:</b> The check is in progress.</p> <p><b>setting:</b> The configuration is in progress.</p> <p><b>replicating:</b> The data is being replicated.</p> <p><b>syncing:</b> The incremental data is being synchronized.</p> <p>The value can be:</p> <ul style="list-style-type: none"> <li>• <b>cutovering</b></li> <li>• <b>cutovered</b></li> <li>• <b>checking</b></li> <li>• <b>setting</b></li> <li>• <b>replicating</b></li> <li>• <b>syncing</b></li> </ul>

Parameter	Mandatory	Type	Description
state	No	String	<p>The source server status.</p> <p><b>unavailable:</b> The source server fails the environment check.</p> <p><b>waiting:</b> The source server is waiting for migration.</p> <p><b>initialize:</b> The migration of the source server is being initialized.</p> <p><b>replicate:</b> The source server is being replicated.</p> <p><b>syncing:</b> The source server is being synchronized.</p> <p><b>stopping:</b> The migration of the source server is being stopped.</p> <p><b>stopped:</b> The migration of the source server is stopped.</p> <p><b>deleting:</b> The source server record is being deleted.</p> <p><b>error:</b> An error occurs during the migration of the source server.</p> <p><b>cloning:</b> The target server for the source server is being cloned.</p> <p><b>cutovering:</b> The target server for the source server is being launched.</p> <p><b>finished:</b> The target server for the source server is launched.</p> <p>Minimum length: 0 characters Maximum length: 255 characters</p> <p>The value can be:</p> <ul style="list-style-type: none"> <li>● <b>unavailable</b></li> <li>● <b>waiting</b></li> <li>● <b>initialize</b></li> <li>● <b>replicate</b></li> <li>● <b>syncing</b></li> <li>● <b>stopping</b></li> <li>● <b>stopped</b></li> <li>● <b>deleting</b></li> <li>● <b>error</b></li> </ul>

Parameter	Mandatory	Type	Description
			<ul style="list-style-type: none"> <li>• cloning</li> <li>• cutovering</li> <li>• finished</li> </ul>
oem_system	No	Boolean	Indicates whether the OS is an OEM version (Windows).

**Table 5-16 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. <b>MBR</b> : Master Boot Record (MBR) <b>GPT</b> : GUID Partition Table (GPT) The value can be: <ul style="list-style-type: none"> <li>• <b>MBR</b></li> <li>• <b>GPT</b></li> </ul>
device_use	Yes	String	The disk function. <b>BOOT</b> : boot device <b>OS</b> : system device The value can be: <ul style="list-style-type: none"> <li>• <b>BOOT</b></li> <li>• <b>OS</b></li> </ul>
size	Yes	Long	The disk size, in bytes. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
used_size	Yes	Long	The used disk space, in bytes. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>

Parameter	Mandatory	Type	Description
physical_volumes	Yes	Array of <b>PhysicalVolume</b> objects	The information about physical partitions on the disk. Array length: 0 to 65,535
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: <b>0</b> Maximum value: <b>4294967296</b>

**Table 5-17 PhysicalVolume field description**

Parameter	Mandatory	Type	Description
device_use	No	String	The partition function. The partition can be a general, boot, or OS partition. 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. Minimum value: <b>0</b> Maximum value: <b>2147483647</b>
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 size. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
used_size	No	Long	The used space. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
inode_size	No	Integer	The number of inodes. Minimum value: <b>0</b> Maximum value: <b>4294967296</b>
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: <b>0</b> Maximum value: <b>2147483647</b>

**Table 5-18 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 tags. 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 device names of the Btrfs file system. Minimum length: 0 characters Maximum length: 255 characters
size	Yes	Long	The space occupied by the file system data. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
nodesize	Yes	Long	The Btrfs node size. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
sectorsize	Yes	Integer	The sector size. Minimum value: <b>0</b> Maximum value: <b>2147483647</b>
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: <b>0</b> Maximum value: <b>9223372036854775807</b>
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
subvolumn	Yes	Array of <b>BtrfsSubvolumn</b> objects	The subvolume information. Array length: 0 to 65,535

**Table 5-19 BtrfsSubvolumn** field description

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

**Table 5-20 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: <b>0</b> Maximum value: <b>2147483647</b>
mac	Yes	String	The MAC address. Minimum length: 0 characters Maximum length: 255 characters
id	No	String	The database record ID. Minimum length: 0 characters Maximum length: 255 characters

**Table 5-21 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: <b>0</b> Maximum value: <b>9223372036854775807</b>
logical_volumes	No	Array of <b>LogicalVolumes</b> objects	The logical volume information. Array length: 0 to 255
name	No	String	The name. Minimum length: 0 characters Maximum length: 255 characters

Parameter	Mandatory	Type	Description
size	No	Long	The size. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>

**Table 5-22 LogicalVolumes** field description

Parameter	Mandatory	Type	Description
block_count	No	Integer	The number of blocks. Minimum value: <b>0</b> Maximum value: <b>4294967296</b> Default value: <b>0</b>
block_size	No	Long	The block size. Minimum value: <b>0</b> Maximum value: <b>1048576</b> Default value: <b>0</b>
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: <b>0</b> Maximum value: <b>4294967296</b>
device_use	No	Integer	The used space. Minimum value: <b>0</b> Maximum value: <b>4294967296</b>
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

Parameter	Mandatory	Type	Description
size	Yes	Long	The size. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
used_size	Yes	Long	The used space. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
free_size	Yes	Long	The available space. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>

## Response

**Status code: 200**

**Table 5-23** Response body parameter

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

## Example Request

After the Agent installed on the source server collects basic information about the source server, it automatically makes a call to this API to report the information to SMS.

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

```
{
  "os_type": "LINUX",
  "name": "host-192-168-136-161",
  "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,
  "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,
  "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" : [ ]
} ],
"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_size" : "256"
  } ]
} ],
"btrfs_list" : [ {
  "name" : "/dev/vda2",
  "label" : "none",

```

```

"uuid" : "51bc2b06-d675-4429-bef5-fedb11fe47f4",
"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" : "51bc2b06-d675-4429-bef5-fedb11fe47f4",
  "is_snapshot" : "false",
  "subvol_id" : "257",
  "parent_id" : "5",
  "subvol_name" : "@",
  "subvol_mount_path" : "null"
}, {
  "uuid" : "51bc2b06-d675-4429-bef5-fedb11fe47f4",
  "is_snapshot" : "false",
  "subvol_id" : "258",
  "parent_id" : "257",
  "subvol_name" : "@/.snapshots",
  "subvol_mount_path" : "/.snapshots"
}, {
  "uuid" : "51bc2b06-d675-4429-bef5-fedb11fe47f4",
  "is_snapshot" : "true",
  "subvol_id" : "259",
  "parent_id" : "258",
  "subvol_name" : "@/.snapshots/1/snapshot",
  "subvol_mount_path" : "/"
}, {
  "uuid" : "51bc2b06-d675-4429-bef5-fedb11fe47f4",
  "is_snapshot" : "false",
  "subvol_id" : "260",
  "parent_id" : "257",
  "subvol_name" : "@/boot/grub2/i386-pc",
  "subvol_mount_path" : "/boot/grub2/i386-pc"
}, {
  "uuid" : "51bc2b06-d675-4429-bef5-fedb11fe47f4",
  "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" : "51bc2b06-d675-4429-bef5-fedb11fe47f4",
  "is_snapshot" : "false",
  "subvol_id" : "262",
  "parent_id" : "257",
  "subvol_name" : "@/opt",
  "subvol_mount_path" : "/opt"
}, {
  "uuid" : "51bc2b06-d675-4429-bef5-fedb11fe47f4",
  "is_snapshot" : "false",
  "subvol_id" : "263",
  "parent_id" : "257",
  "subvol_name" : "@/srv",
  "subvol_mount_path" : "/srv"
}, {
  "uuid" : "51bc2b06-d675-4429-bef5-fedb11fe47f4",
  "is_snapshot" : "false",
  "subvol_id" : "264",
  "parent_id" : "257",
  "subvol_name" : "@/tmp",
  "subvol_mount_path" : "/tmp"
}

```

```
}, {
  "uuid" : "51bc2b06-d675-4429-bef5-fedb11fe47f4",
  "is_snapshot" : "false",
  "subvol_id" : "265",
  "parent_id" : "257",
  "subvol_name" : "@/usr/local",
  "subvol_mount_path" : "/usr/local"
}, {
  "uuid" : "51bc2b06-d675-4429-bef5-fedb11fe47f4",
  "is_snapshot" : "false",
  "subvol_id" : "266",
  "parent_id" : "257",
  "subvol_name" : "@/var/cache",
  "subvol_mount_path" : "/var/cache"
}, {
  "uuid" : "51bc2b06-d675-4429-bef5-fedb11fe47f4",
  "is_snapshot" : "false",
  "subvol_id" : "267",
  "parent_id" : "257",
  "subvol_name" : "@/var/crash",
  "subvol_mount_path" : "/var/crash"
}, {
  "uuid" : "51bc2b06-d675-4429-bef5-fedb11fe47f4",
  "is_snapshot" : "false",
  "subvol_id" : "268",
  "parent_id" : "257",
  "subvol_name" : "@/var/lib/libvirt/images",
  "subvol_mount_path" : "/var/lib/libvirt/images"
}, {
  "uuid" : "51bc2b06-d675-4429-bef5-fedb11fe47f4",
  "is_snapshot" : "false",
  "subvol_id" : "269",
  "parent_id" : "257",
  "subvol_name" : "@/var/lib/machines",
  "subvol_mount_path" : "/var/lib/machines"
}, {
  "uuid" : "51bc2b06-d675-4429-bef5-fedb11fe47f4",
  "is_snapshot" : "false",
  "subvol_id" : "270",
  "parent_id" : "257",
  "subvol_name" : "@/var/lib/mailman",
  "subvol_mount_path" : "/var/lib/mailman"
}, {
  "uuid" : "51bc2b06-d675-4429-bef5-fedb11fe47f4",
  "is_snapshot" : "false",
  "subvol_id" : "271",
  "parent_id" : "257",
  "subvol_name" : "@/var/lib/mariadb",
  "subvol_mount_path" : "/var/lib/mariadb"
}, {
  "uuid" : "51bc2b06-d675-4429-bef5-fedb11fe47f4",
  "is_snapshot" : "false",
  "subvol_id" : "272",
  "parent_id" : "257",
  "subvol_name" : "@/var/lib/mysql",
  "subvol_mount_path" : "/var/lib/mysql"
}, {
  "uuid" : "51bc2b06-d675-4429-bef5-fedb11fe47f4",
  "is_snapshot" : "false",
  "subvol_id" : "273",
  "parent_id" : "257",
  "subvol_name" : "@/var/lib/named",
  "subvol_mount_path" : "/var/lib/named"
}, {
  "uuid" : "51bc2b06-d675-4429-bef5-fedb11fe47f4",
  "is_snapshot" : "false",
  "subvol_id" : "274",
  "parent_id" : "257",
  "subvol_name" : "@/var/lib/pgsql",
```

```

"subvol_mount_path" : "/var/lib/pgsql"
}, {
  "uuid" : "51bc2b06-d675-4429-bef5-fedb11fe47f4",
  "is_snapshot" : "false",
  "subvol_id" : "275",
  "parent_id" : "257",
  "subvol_name" : "@/var/log",
  "subvol_mount_path" : "/var/log"
}, {
  "uuid" : "51bc2b06-d675-4429-bef5-fedb11fe47f4",
  "is_snapshot" : "false",
  "subvol_id" : "276",
  "parent_id" : "257",
  "subvol_name" : "@/var/opt",
  "subvol_mount_path" : "/var/opt"
}, {
  "uuid" : "51bc2b06-d675-4429-bef5-fedb11fe47f4",
  "is_snapshot" : "false",
  "subvol_id" : "277",
  "parent_id" : "257",
  "subvol_name" : "@/var/spool",
  "subvol_mount_path" : "/var/spool"
}, {
  "uuid" : "51bc2b06-d675-4429-bef5-fedb11fe47f4",
  "is_snapshot" : "false",
  "subvol_id" : "278",
  "parent_id" : "257",
  "subvol_name" : "@/var/tmp",
  "subvol_mount_path" : "/var/tmp"
}, {
  "uuid" : "51bc2b06-d675-4429-bef5-fedb11fe47f4",
  "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" : "192.168.136.161",
    "netmask" : "netmask",
    "gateway" : "gateway",
    "mac" : "1a9660eb8a3ffcf4df6d7865b52eb54f7b0cd194029e0eadd8e2c7f1267d80c0"
  } ],
  "ip" : "192.168.136.161",
  "agent_version" : "2.2.1"
}

```

## Example Response

**Status code: 200**

The source server was registered with SMS.

```

{
  "id" : "8abda8635e09d185015e09d188dd0001xx"
}

```

## Status Codes

Status Code	Description
200	The source server was 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 5-24** Query parameters

Parameter	Mandatory	Type	Description
state	No	String	<p>The source server status.</p> <p><b>unavailable:</b> The source server fails the environment check.</p> <p><b>waiting:</b> The source server is waiting for migration.</p> <p><b>initialize:</b> The migration of the source server is being initialized.</p> <p><b>replicate:</b> The source server is being replicated.</p> <p><b>syncing:</b> The source server is being synchronized.</p> <p><b>stopping:</b> The migration of the source server is being stopped.</p> <p><b>stopped:</b> The migration of the source server is stopped.</p> <p><b>deleting:</b> The source server record is being deleted.</p> <p><b>error:</b> An error occurs during the migration of the source server.</p> <p><b>cloning:</b> The target server for the source server is being cloned.</p> <p><b>cutovering:</b> The target server for the source server is being launched.</p> <p><b>finished:</b> The target server for the source server is launched.</p> <p>The value can be:</p> <ul style="list-style-type: none"> <li>● <b>unavailable</b></li> <li>● <b>waiting</b></li> <li>● <b>initialize</b></li> <li>● <b>replicate</b></li> <li>● <b>syncing</b></li> <li>● <b>stopping</b></li> <li>● <b>stopped</b></li> <li>● <b>deleting</b></li> <li>● <b>error</b></li> <li>● <b>cloning</b></li> <li>● <b>cutovering</b></li> </ul>

Parameter	Mandatory	Type	Description
			<ul style="list-style-type: none"> <li><b>finished</b></li> </ul>
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 migration project ID. If this parameter is specified, only the source servers in the project are queried. Minimum length: 0 characters Maximum length: 255 characters
limit	No	Integer	The number of source servers recorded on each page. <b>0</b> indicates that the default value <b>200</b> is used. Minimum value: <b>0</b> Maximum value: <b>200</b> Default value: <b>200</b>
offset	No	Integer	The offset. The default value is <b>0</b> . Minimum value: <b>0</b> Maximum value: <b>65535</b> Default value: <b>0</b>

Parameter	Mandatory	Type	Description
migration_cycle	No	String	<p><b>checking:</b> The check is in progress.</p> <p><b>setting:</b> The configuration is in progress.</p> <p><b>replicating:</b> The data is being replicated.</p> <p><b>syncing:</b> The incremental data is being synchronized.</p> <p><b>cutovering:</b> The target server for the source server is being launched.</p> <p><b>cutovered:</b> The target server for the source server is launched.</p> <p>Minimum length: 0 characters Maximum length: 255 characters</p> <p>The value can be:</p> <ul style="list-style-type: none"> <li>• <b>checking</b></li> <li>• <b>setting</b></li> <li>• <b>replicating</b></li> <li>• <b>syncing</b></li> <li>• <b>cutovering</b></li> <li>• <b>cutovered</b></li> </ul>
connected	No	Boolean	Indicates whether to query source servers that are disconnected from SMS.
enterprise_project_id	No	String	<p>The ID of the enterprise project to be queried.</p> <p>Minimum length: 0 characters Maximum length: 255 characters</p>

## Request

**Table 5-25** 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 <b>X-Subject-Token</b> 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 5-26** Response body parameters

Parameter	Type	Description
count	Integer	<p>The total number of source servers that meet the query criteria, which is not affected by <b>limit</b> and <b>offset</b>.</p> <p>Minimum value: <b>0</b> Maximum value: <b>2147483647</b></p>
source_servers	Array of <a href="#">SourceServersResponseBody</a> objects	<p>The list of the queried source servers.</p> <p>Array length: 0 to 65,535</p>

**Table 5-27** [SourceServersResponseBody](#) field description

Parameter	Type	Description
id	String	<p>The source server ID.</p> <p>Minimum length: 0 characters Maximum length: 255 characters</p>
ip	String	<p>The IP address of the source server.</p> <p>Minimum length: 0 characters Maximum length: 255 characters</p>

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 server was registered. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
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"> <li>• <b>WINDOWS</b></li> <li>• <b>Linux</b></li> </ul>
os_version	String	The OS version, for example, <b>CENTOS7.6</b> . Minimum length: 0 characters Maximum length: 255 characters
oem_system	Boolean	Indicates whether the OS is an OEM version (Windows).

Parameter	Type	Description
state	String	<p>The source server status.</p> <p><b>unavailable:</b> The source server fails the environment check.</p> <p><b>waiting:</b> The source server is waiting for migration.</p> <p><b>initialize:</b> The migration of the source server is being initialized.</p> <p><b>replicate:</b> The source server is being replicated.</p> <p><b>syncing:</b> The source server is being synchronized.</p> <p><b>stopping:</b> The migration of the source server is being stopped.</p> <p><b>stopped:</b> The migration of the source server is stopped.</p> <p><b>deleting:</b> The source server record is being deleted.</p> <p><b>error:</b> An error occurs during the migration of the source server.</p> <p><b>cloning:</b> The target server for the source server is being cloned.</p> <p><b>cutovering:</b> The target server for the source server is being launched.</p> <p><b>finished:</b> The target server for the source server is launched.</p> <p>Minimum length: 0 characters Maximum length: 255 characters</p> <p>The value can be:</p> <ul style="list-style-type: none"> <li>• <b>unavailable</b></li> <li>• <b>waiting</b></li> <li>• <b>initialize</b></li> <li>• <b>replicate</b></li> <li>• <b>syncing</b></li> <li>• <b>stopping</b></li> <li>• <b>stopped</b></li> <li>• <b>deleting</b></li> <li>• <b>error</b></li> <li>• <b>cloning</b></li> <li>• <b>cutovering</b></li> <li>• <b>finished</b></li> </ul>

Parameter	Type	Description
connected	Boolean	Indicates whether the source server is connected to SMS.
cpu_quantity	Integer	The number of CPUs on the source server. Minimum value: <b>0</b> Maximum value: <b>2147483647</b>
memory	Long	The physical memory size of the source server, in bytes. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
current_task	<a href="#">TaskByServerSources</a> object	The migration task associated with the source server.
checks	Array of <a href="#">EnvironmentCheck</a> objects	The check items of the source server. Array length: 0 to 65,535
init_target_server	<a href="#">InitTargetServer</a> object	The recommended configuration for the target server.
replicatesize	Long	The volume of migrated data, in bytes. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
stage_action_time	Long	The time when the migration stage of the source server last changed. The migration stage is defined by <b>migration_cycle</b> . Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
totalsize	Long	The volume of data to be migrated, in bytes. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
last_visit_time	Long	The time when the Agent connection status last changed. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>

Parameter	Type	Description
migration_cycle	String	<p>The current migration stage of the source server.</p> <p><b>cutovering</b>: The target server for the source server is being launched.</p> <p><b>cutovered</b>: The target server for the source server is launched.</p> <p><b>checking</b>: The check is in progress.</p> <p><b>setting</b>: The configuration is in progress.</p> <p><b>replicating</b>: The data is being replicated.</p> <p><b>syncing</b>: The incremental data is being synchronized.</p> <p>Minimum length: 0 characters Maximum length: 255 characters The value can be:</p> <ul style="list-style-type: none"> <li>• <b>cutovering</b></li> <li>• <b>cutovered</b></li> <li>• <b>checking</b></li> <li>• <b>setting</b></li> <li>• <b>replicating</b></li> <li>• <b>syncing</b></li> </ul>
state_action_time	Long	<p>The time when the status of the source server last changed. The source server status is defined by <b>state</b>.</p> <p>Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b></p>

**Table 5-28** TaskByServerSources

Parameter	Type	Description
id	String	<p>The task ID.</p> <p>Minimum length: 1 character Maximum length: 255 characters</p>
name	String	<p>The task name.</p> <p>Minimum length: 0 characters Maximum length: 255 characters</p>

Parameter	Type	Description
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_completion_time	Long	The estimated completion time. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
start_date	Long	The start time. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
speed_limit	Integer	The migration rate limit. Minimum value: <b>0</b> Maximum value: <b>10000</b>
migrate_speed	Double	The migration rate. Minimum value: <b>0</b> Maximum value: <b>10000</b>
compress_rate	Double	The compression rate. Minimum value: <b>0</b> Maximum value: <b>10000</b>
start_target_server	Boolean	Indicates 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	The region ID. Minimum length: 0 characters Maximum length: 255 characters
project_name	String	The project name. Minimum length: 0 characters Maximum length: 255 characters

Parameter	Type	Description
project_id	String	The project ID. Minimum length: 0 characters Maximum length: 255 characters
target_server	<a href="#">TargetServerById</a> 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	Indicates whether an existing server is used as the target server.
use_public_ip	Boolean	Indicates whether a public IP address is used for migration.
clone_server	<a href="#">CloneServer</a> object	The information about the cloned server.
remain_seconds	Long	The migration duration. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
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 share link. Minimum value: <b>300</b> Maximum value: <b>64800</b>
log_upload_time	Long	The log upload time. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
log_share_url	String	The share URL. Minimum length: 0 characters Maximum length: 65,535 characters

**Table 5-29 TargetServerById**

Parameter	Type	Description
vm_id	String	The ID of the target server. 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 5-30 CloneServer** field description

Parameter	Type	Description
vm_id	String	The ID of the cloned server. 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 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 5-31 EnvironmentCheck** field description

Parameter	Type	Description
id	Long	The check item ID. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>

Parameter	Type	Description
params	Array of strings	The parameters. Minimum length: 0 characters Maximum length: 255 characters Array length: 0 to 65,535
name	String	The check item name. Minimum length: 0 characters Maximum length: 255 characters
result	String	The check result. <b>OK</b> : The check is passed. <b>WARN</b> : A warning is generated. <b>ERROR</b> : The check fails. Minimum length: 0 characters Maximum length: 255 characters The value can be: <ul style="list-style-type: none"> <li>• <b>OK</b></li> <li>• <b>WARN</b></li> <li>• <b>ERROR</b></li> </ul>
error_code	String	The returned error code. Minimum length: 0 characters Maximum length: 255 characters
error_or_warn	String	The returned 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 5-32** InitTargetServer field description

Parameter	Type	Description
disks	Array of <a href="#">DiskIntargetServer</a> objects	The information about the recommended target server disks. Array length: 0 to 65,535
volume_groups	Array of <a href="#">VolumeGroups</a> 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

**Table 5-33 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: <b>0</b> Maximum value: <b>9223372036854775807</b>
device_use	String	The disk function. <b>BOOT</b> : boot device <b>OS</b> : system device <b>NORMAL</b> : general device Minimum length: 0 characters Maximum length: 255 characters The value can be: <ul style="list-style-type: none"> <li>• <b>BOOT</b></li> <li>• <b>OS</b></li> <li>• <b>NORMAL</b></li> </ul>
used_size	Long	The used disk space, in bytes. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
physical_volumes	Array of <b>PhysicalVolumes</b> objects	The physical volume information. Array length: 0 to 65,535

**Table 5-34 PhysicalVolumes** field description

Parameter	Type	Description
device_use	String	The partition function. The partition can be a general, boot, or OS partition. Minimum length: 0 characters Maximum length: 255 characters

Parameter	Type	Description
file_system	String	The file system type. Minimum length: 0 characters Maximum length: 255 characters
index	Integer	The serial number. Minimum value: <b>0</b> Maximum value: <b>2147483647</b>
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: <b>0</b> Maximum value: <b>9223372036854775807</b>
inode_size	Long	The number of inodes. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
used_size	Long	The used space. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
uuid	String	The GUID, which can be obtained from the source server. Minimum length: 0 characters Maximum length: 255 characters

**Table 5-35 VolumeGroups** field description

Parameter	Type	Description
components	String	The physical volume information. Minimum length: 0 characters Maximum length: 255 characters

Parameter	Type	Description
free_size	Long	The available space. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
logical_volumes	Array of <b>LogicalVolumes</b> objects	The logical volume information. Array length: 0 to 255
name	String	The name. Minimum length: 0 characters Maximum length: 255 characters
size	Long	The size. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>

**Table 5-36 LogicalVolumes** field description

Parameter	Type	Description
block_count	Integer	The number of blocks. Minimum value: <b>0</b> Maximum value: <b>4294967296</b> Default value: <b>0</b>
block_size	Long	The block size. Minimum value: <b>0</b> Maximum value: <b>1048576</b> Default value: <b>0</b>
file_system	String	The file system. Minimum length: 0 characters Maximum length: 255 characters
inode_size	Integer	The number of inodes. Minimum value: <b>0</b> Maximum value: <b>4294967296</b>
device_use	Integer	The used space. Minimum value: <b>0</b> Maximum value: <b>4294967296</b>

Parameter	Type	Description
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: <b>0</b> Maximum value: <b>9223372036854775807</b>
used_size	Long	The used space. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
free_size	Long	The available space. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>

**Status code: 500**

**Table 5-37** 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 list of source servers was obtained.

```
{
  "count" : 10,
  "source_servers" : [ {
    "id" : "7583895d-627b-4643-82bc-c2aec1576a75",
    "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" : "57ea3129-a808-488b-90c5-30861de60676",
      "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" : "26885d76-0d65-4f4b-9e9b-19c7d69ccc13",
      "region_id" : "region_id",
      "project_name" : "project_name",
      "project_id" : "b276e6fb38c74aa2ba4598f049745ce9",
      "target_server" : {
        "vm_id" : "23d74c12-b78b-4163-ba33-a898f79b8260",
        "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" : "4f63b0e6-9624-4472-b811-bedfbf52a9b6",
  "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" : "5297077e-8b2a-487a-87b3-f3d11d5cf0be",
    "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" : "d67d6f9b-fa72-46c3-8a90-15cab3190907",
    "region_id" : "region_id",
    "project_name" : "project_name",
    "project_id" : "b276e6fb38c74aa2ba4598f049745ce9",
    "target_server" : {
      "vm_id" : "0b1b1aa6-1364-4395-8556-e9cb5afe8538",
      "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" : "ebe80818-605e-430e-9d2e-bf71af50bbb6",
  "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" : "a42013ab-1ebb-4dd8-8284-1a678ef1ccac",
    "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" : "f909c6ec-aafd-4e85-94bc-aad03a756bb5",
    "region_id" : "region_id",
    "project_name" : "project_name",
    "project_id" : "b276e6fb38c74aa2ba4598f049745ce9",
    "target_server" : {
      "vm_id" : "e9eeb550-ba71-4940-a75a-94931955179d",
      "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": "766b8952-61e3-444d-8b7f-bc76c4c0d3f6",
  "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" : "5aaddbd6-6c47-472d-ab67-95c07d251d3c",
  "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" : "1a9aee6c-eadb-4269-89af-57b4b734a809",
  "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" : "2d41ea08-eb93-4a0a-a0c3-fd7a92828347",
  "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" : "d8ab16fe-4cdc-402e-a700-533dd8901bd5",
  "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": "02d6a461-b7a4-44ef-b37a-13abe57a715f",
  "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" : "ee28ac0d-4f5d-479d-869c-e904aafbbba70",
  "ip" : "192.168.0.65",
  "name" : "smc-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" : "c943d962-dc48-4d2c-80a1-b1102363bf9c",
    "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" : "8751d34d-a79c-4f32-a3aa-24389db219a9",
    "region_id" : "region_id",
    "project_name" : "project_name",
    "project_id" : "06334e957c80d2642f39c0030856abdb",
    "target_server" : {
      "vm_id" : "705e6fd0-53d9-47e1-b58d-484730ba9ba9",
      "name" : "smc-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 list of source servers was 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 5-38** 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 <b>X-Subject-Token</b> in the response header is the user token. Minimum length: 1 character Maximum length: 16,384 characters

**Table 5-39** Request body parameter

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

## Response

**Status code: 200**

OK

None

## Example Request

This example deletes the records of source servers whose IDs are **ec2a894f-0d92-47c5-ac22-168ef61d399b** and **5f13089f-799f-4f33-b3e1-c499397dfdf8**.

```
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	OK

## Error Codes

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

## 5.3.5 Modifying the Name of a Specified Source Server

### Function

This API is used to modify the name of a source server displayed on the SMS console to facilitate source server management.

### Calling Method

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

### URI

PUT /v3/sources/{source\_id}

**Table 5-40** Path parameter

Parameter	Mandatory	Type	Description
source_id	Yes	String	The ID of the source server in SMS. Minimum length: 0 characters Maximum length: 255 characters

## Request

**Table 5-41** 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 <b>X-Subject-Token</b> in the response header is the user token.</p> <p>Minimum length: 1 character Maximum length: 16,384 characters</p>

**Table 5-42** Request body parameters

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

**Table 5-43 PutDisk field description**

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

**Table 5-44 PutVolume field description**

Parameter	Mandatory	Type	Description
id	No	String	The database record ID. Minimum length: 0 characters Maximum length: 255 characters
need_migration	No	Boolean	Indicates whether the volume needs to be migrated. Default value: <b>true</b>
adjust_size	No	Long	The new size. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b> Default value: <b>0</b>

**Table 5-45 PutVolumeGroups** field description

Parameter	Mandatory	Type	Description
logical_volumes	No	Array of <a href="#">PutLogicalVolume</a> objects	The logical volume information. Array length: 0 to 65,535
id	Yes	String	The volume group ID. Minimum length: 0 characters Maximum length: 255 characters
need_migration	No	Boolean	Indicates whether the volume needs to be migrated. Default value: <b>true</b>
adjust_size	No	Long	The new size. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b> Default value: <b>0</b>

**Table 5-46 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	Indicates whether the volume needs to be migrated. Default value: <b>true</b>
adjust_size	No	Long	The new size. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b> Default value: <b>0</b>

## Response

**Status code: 200**

OK

None

## Example Request

This example changes the name of source server **dcdbe339-b02d-4578-95a1-9c9c547dxxxx** to **abcd**.

```
PUT https://{endpoint}/v3/sources/dcdbe339-b02d-4578-95a1-9c9c547d82a7
{
  "name" : "abcd"
}
```

## Example Response

None

## Status Codes

Status Code	Description
200	OK

## 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 5-47** Path parameter

Parameter	Mandatory	Type	Description
source_id	Yes	String	The ID of the source server in SMS. Minimum length: 0 characters Maximum length: 255 characters

## Request

**Table 5-48** 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 <b>X-Subject-Token</b> in the response header is the user token. Minimum length: 1 character Maximum length: 16,384 characters

**Table 5-49** Request body parameters

Parameter	Mandatory	Type	Description
copystate	No	String	<p>The source server status.</p> <p><b>UNAVAILABLE:</b> The source server fails the environment check.</p> <p><b>WAITING:</b> The source server is waiting for migration.</p> <p><b>INIT:</b> The migration of the source server is being initialized.</p> <p><b>REPLICATE:</b> The source server is being replicated.</p> <p><b>SYNCING:</b> The source server is being synchronized.</p> <p><b>STOPPING:</b> The migration of the source server is being stopped.</p> <p><b>STOPPED:</b> The migration of the source server is stopped.</p> <p><b>DELETING:</b> The source server record is being deleted.</p> <p><b>ERROR:</b> An error occurs during the migration of the source server.</p> <p><b>CLONING:</b> The target server for the source server is being cloned.</p> <p><b>CUTOVERING:</b> The target server for the source server is being launched.</p> <p><b>FINISHED:</b> The target server for the source server is launched.</p> <p>The value can be:</p> <ul style="list-style-type: none"> <li>● <b>UNAVAILABLE</b></li> <li>● <b>WAITING</b></li> <li>● <b>INIT</b></li> <li>● <b>REPLICATE</b></li> <li>● <b>SYNCING</b></li> <li>● <b>STOPPING</b></li> <li>● <b>STOPPED</b></li> <li>● <b>DELETING</b></li> <li>● <b>ERROR</b></li> </ul>

Parameter	Mandatory	Type	Description
			<ul style="list-style-type: none"> <li>● <b>CLONING</b></li> <li>● <b>CUTOVERING</b></li> </ul>
migrationcycle	No	String	<p>The current migration stage of the source server.</p> <p><b>cutovering</b>: The target server for the source server is being launched.</p> <p><b>cutovered</b>: The target server for the source server is launched.</p> <p><b>checking</b>: The check is in progress.</p> <p><b>setting</b>: The configuration is in progress.</p> <p><b>replicating</b>: The data is being replicated.</p> <p><b>syncing</b>: The incremental data is being synchronized.</p> <p>The value can be:</p> <ul style="list-style-type: none"> <li>● <b>cutovering</b></li> <li>● <b>cutovered</b></li> <li>● <b>checking</b></li> <li>● <b>setting</b></li> <li>● <b>replicating</b></li> <li>● <b>syncing</b></li> </ul>

## Response

**Status code: 200**

OK

None

## Example Request

This example changes the migration status for source server **dcdbe339-b02d-4578-95a1-9c9c547dxxxx**.

```
PUT https://{endpoint}/v3/sources/dcdbe339-b02d-4578-95a1-9c9c547dxxxx/changestate
```

```
{
  "copystate" : "WAITING",
  "migrationcycle" : "cutovered"
}
```

## Example Response

None

## Status Codes

Status Code	Description
200	OK

## 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 5-50** Path parameter

Parameter	Mandatory	Type	Description
source_id	Yes	String	The ID of the source server in SMS. Minimum length: 0 characters Maximum length: 255 characters

## Request

**Table 5-51** 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 <b>X-Subject-Token</b> in the response header is the user token.</p> <p>Minimum length: 1 character Maximum length: 16,384 characters</p>

## Response

**Status code: 200**

OK

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	OK

## Error Codes

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

## 5.3.8 Querying a Source Server

### Function

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

### Calling Method

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

### URI

GET /v3/sources/{source\_id}

**Table 5-52** Path parameter

Parameter	Mandatory	Type	Description
source_id	Yes	String	The ID of the source server in SMS. Minimum length: 0 characters Maximum length: 255 characters

### Request

**Table 5-53** 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 <b>X-Subject-Token</b> in the response header is the user token. Minimum length: 1 character Maximum length: 16,384 characters

### Response

**Status code: 200**

**Table 5-54** 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 source server name in SMS. Minimum length: 0 characters Maximum length: 255 characters
hostname	String	The hostname of the source server. This parameter is mandatory for source server registration and optional for source server updates. 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 server was registered. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
os_type	String	The OS type of the source server, which can be Windows or Linux. This parameter is mandatory for source server registration and optional for source server updates. Minimum length: 0 characters Maximum length: 255 characters
os_version	String	The OS version. This parameter is mandatory for registration and optional for updates. Minimum length: 0 characters Maximum length: 255 characters
oem_system	Boolean	Indicates whether the OS is an OEM version (Windows).

Parameter	Type	Description
state	String	<p>The source server status.</p> <p><b>unavailable:</b> The source server fails the environment check.</p> <p><b>waiting:</b> The source server is waiting for migration.</p> <p><b>initialize:</b> The migration of the source server is being initialized.</p> <p><b>replicate:</b> The source server is being replicated.</p> <p><b>syncing:</b> The source server is being synchronized.</p> <p><b>stopping:</b> The migration of the source server is being stopped.</p> <p><b>stopped:</b> The migration of the source server is stopped.</p> <p><b>deleting:</b> The source server record is being deleted.</p> <p><b>error:</b> An error occurs during the migration of the source server.</p> <p><b>cloning:</b> The target server for the source server is being cloned.</p> <p><b>testing:</b> The test is in progress.</p> <p><b>finished:</b> The target server for the source server is launched.</p> <p>The value can be:</p> <ul style="list-style-type: none"> <li>• <b>unavailable</b></li> <li>• <b>waiting</b></li> <li>• <b>initialize</b></li> <li>• <b>replicate</b></li> <li>• <b>syncing</b></li> <li>• <b>stopping</b></li> <li>• <b>stopped</b></li> <li>• <b>deleting</b></li> <li>• <b>error</b></li> <li>• <b>cloning</b></li> <li>• <b>testing</b></li> <li>• <b>finished</b></li> </ul>
connected	Boolean	Indicate whether the Agent installed on the source server is connected to SMS.

Parameter	Type	Description
firmware	String	The boot mode of the source server, which can be BIOS or UEFI. The value can be: <ul style="list-style-type: none"> <li>• BIOS</li> <li>• UEFI</li> </ul>
init_target_server	<a href="#">InitTargetServer</a> object	The recommended configuration for the target server.
cpu_quantity	Integer	The number of CPUs on the source server. Minimum value: <b>0</b> Maximum value: <b>65535</b>
memory	Long	The physical memory size (MB) of the source server. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
current_task	<a href="#">TaskByServerSource</a> object	The migration task associated with the source server.
disks	Array of <a href="#">ServerDisk</a> objects	The disk information of the source server. Array length: 0 to 65,535
volume_groups	Array of <a href="#">VolumeGroups</a> objects	The volume group information of the source server. This parameter is mandatory for Linux. If there are no volume groups, the value is an empty array []. Array length: 0 to 65,535
btrfs_list	Array of <a href="#">BtrfsFileSystem</a> 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
networks	Array of <a href="#">NetWork</a> objects	The information about NICs on the source server. Array length: 0 to 65,535
checks	Array of <a href="#">EnvironmentCheck</a> objects	The environment check information for the source server. Array length: 0 to 65,535

Parameter	Type	Description
migration_cycle	String	<p>The current migration stage of the source server.</p> <p><b>cutovering</b>: The target server for the source server is being launched.</p> <p><b>cutovered</b>: The target server for the source server is launched.</p> <p><b>checking</b>: The check is in progress.</p> <p><b>setting</b>: The configuration is in progress.</p> <p><b>replicating</b>: The data is being replicated.</p> <p><b>syncing</b>: The incremental data is being synchronized.</p> <p>Minimum length: 0 characters Maximum length: 255 characters The value can be:</p> <ul style="list-style-type: none"> <li>• <b>cutovering</b></li> <li>• <b>cutovered</b></li> <li>• <b>checking</b></li> <li>• <b>setting</b></li> <li>• <b>replicating</b></li> <li>• <b>syncing</b></li> </ul>
state_action_time	Long	<p>The timestamp when the status of the source server last changed. The source server status is defined by <b>state</b>.</p> <p>Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b></p>
replicatesize	Long	<p>The volume of data that has been migrated, in bytes.</p> <p>Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b></p>
totalsize	Long	<p>The volume of data to be migrated, in bytes.</p> <p>Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b></p>

Parameter	Type	Description
last_visit_time	Long	The timestamp when the Agent connection status last changed. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
stage_action_time	Long	The timestamp when the migration stage of the source server last changed. The migration stage is defined by <b>migration_cycle</b> . Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
agent_version	String	The Agent version. Minimum length: 0 characters Maximum length: 255 characters

**Table 5-55** InitTargetServer

Parameter	Type	Description
disks	Array of <b>DiskIntargetServer</b> objects	The information about the recommended target server disks. Array length: 0 to 65,535
volume_groups	Array of <b>VolumeGroups</b> 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

**Table 5-56** 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: <b>0</b> Maximum value: <b>9223372036854775807</b>

Parameter	Type	Description
device_use	String	The disk function. <b>BOOT</b> : boot device <b>OS</b> : system device <b>NORMAL</b> : general device Minimum length: 0 characters Maximum length: 255 characters The value can be: <ul style="list-style-type: none"> <li>• <b>BOOT</b></li> <li>• <b>OS</b></li> <li>• <b>NORMAL</b></li> </ul>
used_size	Long	The used disk space, in bytes. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
physical_volumes	Array of <b>PhysicalVolumes</b> objects	The physical volume information. Array length: 0 to 65,535

**Table 5-57 PhysicalVolumes field description**

Parameter	Type	Description
device_use	String	The partition function. The partition can be a general, boot, or OS partition. 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. Minimum value: <b>0</b> Maximum value: <b>2147483647</b>
mount_point	String	The mount point. Minimum length: 0 characters Maximum length: 255 characters

Parameter	Type	Description
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: <b>0</b> Maximum value: <b>9223372036854775807</b>
inode_size	Long	The number of inodes. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
used_size	Long	The used space. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
uuid	String	The GUID, which can be obtained from the source server. Minimum length: 0 characters Maximum length: 255 characters

**Table 5-58 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

Parameter	Type	Description
start_date	Long	The start time. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
speed_limit	Integer	The migration rate limit. Minimum value: <b>0</b> Maximum value: <b>10000</b>
migrate_speed	Double	The migration rate. Minimum value: <b>0</b> Maximum value: <b>10000</b>
start_target_server	Boolean	Indicates 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	The 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	<b>TargetServerById</b> 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	Indicates whether an existing server is used as the target server.
use_public_ip	Boolean	Indicates whether a public IP address is used for migration.
clone_server	<b>CloneServer</b> object	The information about the cloned server.

**Table 5-59 TargetServerById**

Parameter	Type	Description
vm_id	String	The ID of the target server. 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 5-60 CloneServer** field description

Parameter	Type	Description
vm_id	String	The ID of the cloned server. 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 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 5-61 ServerDisk** field description

Parameter	Type	Description
name	String	The disk name. Minimum length: 0 characters Maximum length: 255 characters

Parameter	Type	Description
partition_style	String	The disk partition style. This parameter is mandatory for source server registration. <b>MBR</b> : Master Boot Record (MBR) <b>GPT</b> : GUID Partition Table (GPT) The value can be: <ul style="list-style-type: none"> <li>• <b>MBR</b></li> <li>• <b>GPT</b></li> </ul>
device_use	String	The disk function. <b>BOOT</b> : boot device <b>OS</b> : system device The value can be: <ul style="list-style-type: none"> <li>• <b>BOOT</b></li> <li>• <b>OS</b></li> </ul>
size	Long	The disk size, in bytes. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
used_size	Long	The used disk space, in bytes. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
physical_volumes	Array of <b>PhysicalVolume</b> objects	The information about physical partitions on the disk. Array length: 0 to 65,535
os_disk	Boolean	Indicates whether the disk is the system disk.
relation_name	String	The name of the paired target server disk in Linux. Minimum length: 0 characters Maximum length: 255 characters
inode_size	Integer	The number of inodes. Minimum value: <b>0</b> Maximum value: <b>4294967296</b>

**Table 5-62 PhysicalVolume field description**

Parameter	Type	Description
device_use	String	The partition function. The partition can be a general, boot, or OS partition. 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. Minimum value: <b>0</b> Maximum value: <b>2147483647</b>
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: <b>0</b> Maximum value: <b>9223372036854775807</b>
used_size	Long	The used space. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
inode_size	Integer	The number of inodes. Minimum value: <b>0</b> Maximum value: <b>4294967296</b>
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: <b>0</b> Maximum value: <b>2147483647</b>

**Table 5-63 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: <b>0</b> Maximum value: <b>9223372036854775807</b>
logical_volumes	Array of <a href="#">LogicalVolumes</a> objects	The logical volume information. Array length: 0 to 255
name	String	The name. Minimum length: 0 characters Maximum length: 255 characters
size	Long	The size. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>

**Table 5-64 LogicalVolumes** field description

Parameter	Type	Description
block_count	Integer	The number of blocks. Minimum value: <b>0</b> Maximum value: <b>4294967296</b> Default value: <b>0</b>
block_size	Long	The block size. Minimum value: <b>0</b> Maximum value: <b>1048576</b> Default value: <b>0</b>
file_system	String	The file system. Minimum length: 0 characters Maximum length: 255 characters

Parameter	Type	Description
inode_size	Integer	The number of inodes. Minimum value: <b>0</b> Maximum value: <b>4294967296</b>
device_use	Integer	The used space. Minimum value: <b>0</b> Maximum value: <b>4294967296</b>
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: <b>0</b> Maximum value: <b>9223372036854775807</b>
used_size	Long	The used space. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
free_size	Long	The available space. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>

**Table 5-65 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

Parameter	Type	Description
uuid	String	The UUID of the file system. Minimum length: 0 characters Maximum length: 255 characters
device	String	The device names of the Btrfs file system. Minimum length: 0 characters Maximum length: 255 characters
size	Long	The space occupied by the file system. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
nodesize	Long	The Btrfs node size. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
sectorsize	Integer	The sector size. Minimum value: <b>0</b> Maximum value: <b>2147483647</b>
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_reserve1	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: <b>0</b> Maximum value: <b>9223372036854775807</b>
default_subvolid	String	The ID of the default subvolume. Minimum length: 0 characters Maximum length: 255 characters

Parameter	Type	Description
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
subvolumn	Array of <b>BtrfsSubvolumn</b> objects	The subvolume information. Array length: 0 to 65,535

**Table 5-66 BtrfsSubvolumn** field description

Parameter	Type	Description
uuid	String	The UUID of the parent volume. Minimum length: 0 characters Maximum length: 255 characters
is_snapshot	String	Indicates 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 5-67 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: <b>0</b> Maximum value: <b>2147483647</b>
mac	String	The MAC address. Minimum length: 0 characters Maximum length: 255 characters
id	String	The database record ID. Minimum length: 0 characters Maximum length: 255 characters

**Table 5-68 EnvironmentCheck** field description

Parameter	Type	Description
id	Long	The check item ID. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
params	Array of strings	The parameters. Minimum length: 0 characters Maximum length: 255 characters Array length: 0 to 65,535

Parameter	Type	Description
name	String	The check item name. Minimum length: 0 characters Maximum length: 255 characters
result	String	The check result. <b>OK</b> : The check is passed. <b>WARN</b> : A warning is generated. <b>ERROR</b> : The check fails. Minimum length: 0 characters Maximum length: 255 characters The value can be: <ul style="list-style-type: none"> <li>• <b>OK</b></li> <li>• <b>WARN</b></li> <li>• <b>ERROR</b></li> </ul>
error_code	String	The returned error code. Minimum length: 0 characters Maximum length: 255 characters
error_or_warn	String	The returned 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" : "1cce5dab-df33-4abe-b2ac-e94fa05dxxxx",
  "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" : "1dcbf9f2-9f2a-4df8-88dc-27e5614axxxx",
  "name" : "MigrationTask",
  "type" : "MIGRATE_BLOCK",
  "state" : "RUNNING",
  "speed_limit" : 0,
  "start_target_server" : true,
  "vm_template_id" : "38d53ae9-70e3-4587-89c9-6219d3d4xxxx",
  "region_id" : "region_id",
  "project_name" : "project_name",
  "project_id" : "b276e6fb38c74aa2ba4598f04974xxxx",
  "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	OK

## Error Codes

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

## 5.3.9 Obtaining a Summary of Source Servers

### Function

This API is used to obtain a summary of source servers.

### Calling Method

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

### URI

GET /v3/sources/overview

### Request

**Table 5-69** 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 <b>X-Subject-Token</b> in the response header is the user token. Minimum length: 1 character Maximum length: 16,384 characters

### Response

**Status code: 200**

**Table 5-70** Response body parameters

Parameter	Type	Description
waiting	Integer	The number of servers that are in a waiting migration status. Minimum value: <b>0</b> Maximum value: <b>1000</b>

Parameter	Type	Description
replicating	Integer	The number of servers that are in a replicating migration status. Minimum value: <b>0</b> Maximum value: <b>1000</b>
syncing	Integer	The number of servers that are in a synchronizing migration status. Minimum value: <b>0</b> Maximum value: <b>1000</b>
other	Integer	The number of servers in other statuses. Minimum value: <b>0</b> Maximum value: <b>1000</b>

## Example Request

This example queries a summary of source 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	OK

## 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 5-71** Path parameter

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

### Request

**Table 5-72** 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 <b>X-Subject-Token</b> in the response header is the user token. Minimum length: 1 character Maximum length: 16,384 characters

**Table 5-73** Request body parameters

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

**Table 5-74** 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. <b>MBR</b> : Master Boot Record (MBR) <b>GPT</b> : GUID Partition Table (GPT) The value can be: <ul style="list-style-type: none"> <li>• <b>MBR</b></li> <li>• <b>GPT</b></li> </ul>
device_use	Yes	String	The disk function. <b>BOOT</b> : boot device <b>OS</b> : system device The value can be: <ul style="list-style-type: none"> <li>• <b>BOOT</b></li> <li>• <b>OS</b></li> </ul>
size	Yes	Long	The disk size, in bytes. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>

Parameter	Mandatory	Type	Description
used_size	Yes	Long	The used disk space, in bytes. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
physical_volumes	Yes	Array of <b>PhysicalVolume</b> objects	The information about physical partitions on the disk. Array length: 0 to 65,535
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: <b>0</b> Maximum value: <b>4294967296</b>

**Table 5-75 PhysicalVolume field description**

Parameter	Mandatory	Type	Description
device_use	No	String	The partition function. The partition can be a general, boot, or OS partition. 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. Minimum value: <b>0</b> Maximum value: <b>2147483647</b>
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 size. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
used_size	No	Long	The used space. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
inode_size	No	Integer	The number of inodes. Minimum value: <b>0</b> Maximum value: <b>4294967296</b>
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: <b>0</b> Maximum value: <b>2147483647</b>

**Table 5-76 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: <b>0</b> Maximum value: <b>9223372036854775807</b>
logical_volumes	No	Array of <b>LogicalVolumes</b> objects	The logical volume information. Array length: 0 to 255
name	No	String	The name. Minimum length: 0 characters Maximum length: 255 characters
size	No	Long	The size. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>

**Table 5-77 LogicalVolumes** field description

Parameter	Mandatory	Type	Description
block_count	No	Integer	The number of blocks. Minimum value: <b>0</b> Maximum value: <b>4294967296</b> Default value: <b>0</b>
block_size	No	Long	The block size. Minimum value: <b>0</b> Maximum value: <b>1048576</b> Default value: <b>0</b>
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: <b>0</b> Maximum value: <b>4294967296</b>
device_use	No	Integer	The used space. Minimum value: <b>0</b> Maximum value: <b>4294967296</b>

Parameter	Mandatory	Type	Description
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: <b>0</b> Maximum value: <b>9223372036854775807</b>
used_size	Yes	Long	The used space. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
free_size	Yes	Long	The available space. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>

**Table 5-78 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

Parameter	Mandatory	Type	Description
device	Yes	String	The device names of the Btrfs file system. Minimum length: 0 characters Maximum length: 255 characters
size	Yes	Long	The space occupied by the file system. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
nodesize	Yes	Long	The Btrfs node size. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
sectorsize	Yes	Integer	The sector size. Minimum value: <b>0</b> Maximum value: <b>2147483647</b>
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_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: <b>0</b> Maximum value: <b>9223372036854775807</b>

Parameter	Mandatory	Type	Description
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
subvolumn	Yes	Array of <b>BtrfsSubvolumn</b> objects	The subvolume information. Array length: 0 to 65,535

**Table 5-79 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

Parameter	Mandatory	Type	Description
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

**Status code: 200**

OK

None

## Example Request

This example changes disk information of a server.

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" : [ ]
} ],
"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_size" : 256
  } ]
} ],
"btrfs_list" : [ {
  "name" : "/dev/vda2",
  "label" : "none",
  "uuid" : "51bc2b06-d675-4429-bef5-fedb11fe47f4",
  "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_subvol_id" : 259,
  "default_subvol_name" : "@/.snapshots/1/snapshot",
  "default_subvol_mountpath" : "/",
  "subvolumn" : [ {
    "uuid" : "51bc2b06-d675-4429-bef5-fedb11fe47f4",
    "is_snapshot" : false,
    "subvol_id" : 257,
    "parent_id" : 5,
    "subvol_name" : "@",
    "subvol_mount_path" : null
  } ],
  "uuid" : "51bc2b06-d675-4429-bef5-fedb11fe47f4",

```

```

"is_snapshot" : false,
"subvol_id" : 258,
"parent_id" : 257,
"subvol_name" : "@/.snapshots",
"subvol_mount_path" : "/.snapshots"
}, {
  "uuid" : "51bc2b06-d675-4429-bef5-fedb11fe47f4",
  "is_snapshot" : true,
  "subvol_id" : 259,
  "parent_id" : 258,
  "subvol_name" : "@/.snapshots/1/snapshot",
  "subvol_mount_path" : "/"
}, {
  "uuid" : "51bc2b06-d675-4429-bef5-fedb11fe47f4",
  "is_snapshot" : false,
  "subvol_id" : 260,
  "parent_id" : 257,
  "subvol_name" : "@/boot/grub2/i386-pc",
  "subvol_mount_path" : "/boot/grub2/i386-pc"
}, {
  "uuid" : "51bc2b06-d675-4429-bef5-fedb11fe47f4",
  "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" : "51bc2b06-d675-4429-bef5-fedb11fe47f4",
  "is_snapshot" : false,
  "subvol_id" : 262,
  "parent_id" : 257,
  "subvol_name" : "@/opt",
  "subvol_mount_path" : "/opt"
}, {
  "uuid" : "51bc2b06-d675-4429-bef5-fedb11fe47f4",
  "is_snapshot" : false,
  "subvol_id" : 263,
  "parent_id" : 257,
  "subvol_name" : "@/srv",
  "subvol_mount_path" : "/srv"
}, {
  "uuid" : "51bc2b06-d675-4429-bef5-fedb11fe47f4",
  "is_snapshot" : false,
  "subvol_id" : 264,
  "parent_id" : 257,
  "subvol_name" : "@/tmp",
  "subvol_mount_path" : "/tmp"
}, {
  "uuid" : "51bc2b06-d675-4429-bef5-fedb11fe47f4",
  "is_snapshot" : false,
  "subvol_id" : 265,
  "parent_id" : 257,
  "subvol_name" : "@/usr/local",
  "subvol_mount_path" : "/usr/local"
}, {
  "uuid" : "51bc2b06-d675-4429-bef5-fedb11fe47f4",
  "is_snapshot" : false,
  "subvol_id" : 266,
  "parent_id" : 257,
  "subvol_name" : "@/var/cache",
  "subvol_mount_path" : "/var/cache"
}, {
  "uuid" : "51bc2b06-d675-4429-bef5-fedb11fe47f4",
  "is_snapshot" : false,
  "subvol_id" : 267,
  "parent_id" : 257,
  "subvol_name" : "@/var/crash",
  "subvol_mount_path" : "/var/crash"
}, {

```

```

"uuid" : "51bc2b06-d675-4429-bef5-fedb11fe47f4",
"is_snapshot" : false,
"subvol_id" : 268,
"parent_id" : 257,
"subvol_name" : "@/var/lib/libvirt/images",
"subvol_mount_path" : "/var/lib/libvirt/images"
}, {
"uuid" : "51bc2b06-d675-4429-bef5-fedb11fe47f4",
"is_snapshot" : false,
"subvol_id" : 269,
"parent_id" : 257,
"subvol_name" : "@/var/lib/machines",
"subvol_mount_path" : "/var/lib/machines"
}, {
"uuid" : "51bc2b06-d675-4429-bef5-fedb11fe47f4",
"is_snapshot" : false,
"subvol_id" : 270,
"parent_id" : 257,
"subvol_name" : "@/var/lib/mailman",
"subvol_mount_path" : "/var/lib/mailman"
}, {
"uuid" : "51bc2b06-d675-4429-bef5-fedb11fe47f4",
"is_snapshot" : false,
"subvol_id" : 271,
"parent_id" : 257,
"subvol_name" : "@/var/lib/mariadb",
"subvol_mount_path" : "/var/lib/mariadb"
}, {
"uuid" : "51bc2b06-d675-4429-bef5-fedb11fe47f4",
"is_snapshot" : false,
"subvol_id" : 272,
"parent_id" : 257,
"subvol_name" : "@/var/lib/mysql",
"subvol_mount_path" : "/var/lib/mysql"
}, {
"uuid" : "51bc2b06-d675-4429-bef5-fedb11fe47f4",
"is_snapshot" : false,
"subvol_id" : 273,
"parent_id" : 257,
"subvol_name" : "@/var/lib/named",
"subvol_mount_path" : "/var/lib/named"
}, {
"uuid" : "51bc2b06-d675-4429-bef5-fedb11fe47f4",
"is_snapshot" : false,
"subvol_id" : 274,
"parent_id" : 257,
"subvol_name" : "@/var/lib/pgsql",
"subvol_mount_path" : "/var/lib/pgsql"
}, {
"uuid" : "51bc2b06-d675-4429-bef5-fedb11fe47f4",
"is_snapshot" : false,
"subvol_id" : 275,
"parent_id" : 257,
"subvol_name" : "@/var/log",
"subvol_mount_path" : "/var/log"
}, {
"uuid" : "51bc2b06-d675-4429-bef5-fedb11fe47f4",
"is_snapshot" : false,
"subvol_id" : 276,
"parent_id" : 257,
"subvol_name" : "@/var/opt",
"subvol_mount_path" : "/var/opt"
}, {
"uuid" : "51bc2b06-d675-4429-bef5-fedb11fe47f4",
"is_snapshot" : false,
"subvol_id" : 277,
"parent_id" : 257,
"subvol_name" : "@/var/spool",
"subvol_mount_path" : "/var/spool"

```

```
}, {  
  "uuid" : "51bc2b06-d675-4429-bef5-fedb11fe47f4",  
  "is_snapshot" : false,  
  "subvol_id" : 278,  
  "parent_id" : 257,  
  "subvol_name" : "@/var/tmp",  
  "subvol_mount_path" : "/var/tmp"  
}, {  
  "uuid" : "51bc2b06-d675-4429-bef5-fedb11fe47f4",  
  "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	OK

## 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 for a source server.

### Calling Method

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

### URI

POST /v3/tasks

## Request

**Table 5-80** 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 <b>X-Subject-Token</b> in the response header is the user token.</p> <p>Minimum length: 1 character Maximum length: 16,384 characters</p>

**Table 5-81** Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	<p>The task name.</p> <p>Minimum length: 0 characters Maximum length: 255 characters</p>
type	Yes	String	<p>The task type.</p> <p><b>MIGRATE_FILE</b>: file-level migration <b>MIGRATE_BLOCK</b>: block-level migration</p> <p>The value can be:</p> <ul style="list-style-type: none"> <li>• <b>MIGRATE_FILE</b></li> <li>• <b>MIGRATE_BLOCK</b></li> </ul>
start_target_server	No	Boolean	<p>Indicates whether the target server is started after the migration is complete.</p> <p>Default value: <b>true</b></p>
os_type	Yes	String	<p>The OS type.</p> <p>Minimum length: 0 characters Maximum length: 255 characters</p>
source_server	Yes	<b>SourceServer</b> <b>ByTask</b> object	The source server information.

Parameter	Mandatory	Type	Description
target_server	Yes	<a href="#">TargetServer ByTask</a> 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
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
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	Indicates whether a public IP address is used for migration. Default value: <b>true</b>

Parameter	Mandatory	Type	Description
syncing	No	Boolean	Indicates whether to perform a continuous synchronization after the first replication. If this parameter is not specified, the default value <b>false</b> is used. Default value: <b>false</b>
exist_server	No	Boolean	Checks whether the service exists. If it does, create the task.
start_network_check	No	Boolean	Indicates whether to enable network performance measurement.

**Table 5-82** SourceServerByTask

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

**Table 5-83** TargetServerByTask field description

Parameter	Mandatory	Type	Description
btrfs_list	No	Array of <b>BtrfsFilesystem</b> objects	The Btrfs information, which is obtained from the source server. Array length: 0 to 65,535
disks	Yes	Array of <b>TargetDisks</b> objects	The disk information. Array length: 0 to 65,535
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

Parameter	Mandatory	Type	Description
volume_group_s	No	Array of <b>VolumeGroups</b> objects	The volume group information, which is obtained from the source server. Array length: 0 to 65,535

**Table 5-84 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 device names of the Btrfs file system. Minimum length: 0 characters Maximum length: 255 characters
size	Yes	Long	The space occupied by the file system. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
nodesize	Yes	Long	The Btrfs node size. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
sectorsize	Yes	Integer	The sector size. Minimum value: <b>0</b> Maximum value: <b>2147483647</b>

Parameter	Mandatory	Type	Description
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_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: <b>0</b> Maximum value: <b>9223372036854775807</b>
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
subvolumn	Yes	Array of <b>BtrfsSubvolumn</b> objects	The subvolume information. Array length: 0 to 65,535

**Table 5-85 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
subvol_mount_path	Yes	String	The mount path of the subvolume. Minimum length: 0 characters Maximum length: 255 characters

**Table 5-86 TargetDisks** field description

Parameter	Mandatory	Type	Description
device_use	No	String	The disk function. The disk can be a general, OS, or boot disk. <b>BOOT</b> : boot device <b>OS</b> : system device <b>NORMAL</b> : general device Default value: <b>NORMAL</b> The value can be: <ul style="list-style-type: none"> <li>• <b>NORMAL</b></li> <li>• <b>OS</b></li> <li>• <b>BOOT</b></li> </ul>
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
name	Yes	String	The disk name. Set this parameter to <b>Disk X</b> based on the disk sequence. Minimum length: 0 characters Maximum length: 255 characters
physical_volumes	Yes	Array of <b>PhysicalVolumes</b> objects	The physical volume information. Array length: 0 to 65,535
size	Yes	Long	The size. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
used_size	Yes	Long	The used space. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>

**Table 5-87 PhysicalVolumes field description**

Parameter	Mandatory	Type	Description
device_use	No	String	The partition function. The partition can be a general, boot, or OS partition. 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. Minimum value: <b>0</b> Maximum value: <b>2147483647</b>
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: <b>0</b> Maximum value: <b>9223372036854775807</b>
inode_size	No	Long	The number of inodes. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
used_size	No	Long	The used space. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>

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

**Table 5-88 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: <b>0</b> Maximum value: <b>9223372036854775807</b>
logical_volumes	No	Array of <b>LogicalVolumes</b> objects	The logical volume information. Array length: 0 to 255
name	No	String	The name. Minimum length: 0 characters Maximum length: 255 characters
size	No	Long	The size. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>

**Table 5-89 LogicalVolumes** field description

Parameter	Mandatory	Type	Description
block_count	No	Integer	The number of blocks. Minimum value: <b>0</b> Maximum value: <b>4294967296</b> Default value: <b>0</b>

Parameter	Mandatory	Type	Description
block_size	No	Long	The block size. Minimum value: <b>0</b> Maximum value: <b>1048576</b> Default value: <b>0</b>
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: <b>0</b> Maximum value: <b>4294967296</b>
device_use	No	Integer	The used space. Minimum value: <b>0</b> Maximum value: <b>4294967296</b>
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: <b>0</b> Maximum value: <b>9223372036854775807</b>
used_size	Yes	Long	The used space. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
free_size	Yes	Long	The available space. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>

## Response

**Status code: 200**

**Table 5-90** 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 where a new target server will be created.

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" : "b276e6fb38c74aa2ba4598f049745ce9",
  "source_server" : {
    "id" : "16c03428-ff9a-4f36-84aa-583e41499bb2"
  },
  "target_server" : {
    "vm_id" : "1900aab8-90c4-462c-b4c5-acdafc8fbeca",
    "name" : "Auto-tar-name",
    "disks" : [ {
      "name" : "/dev/vda",
      "disk_id" : "76a59f9f-5901-4913-a9a5-f6742baa308c",
      "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" : "8abda8635e09d185015e09d188dd0001xx"
}
```

## Status Codes

Status Code	Description
200	OK

## 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 5-91** Query parameters

Parameter	Mandatory	Type	Description
state	No	String	<p>The migration task status.</p> <p><b>READY:</b> The migration task is ready for execution.</p> <p><b>RUNNING:</b> The migration task is being executed.</p> <p><b>SYNCING:</b> The incremental data is being synchronized.</p> <p><b>MIGRATE_SUCCESS:</b> The migration succeeds.</p> <p><b>MIGRATE_FAIL:</b> The migration fails.</p> <p><b>ABORTING:</b> The migration task is being stopped.</p> <p><b>ABORT:</b> The migration task is stopped.</p> <p><b>DELETING:</b> The migration task is being deleted.</p> <p><b>SYNC_F_ROLLBACKING:</b> The synchronization fails and the task is being rolled back.</p> <p><b>SYNC_F_ROLLBACK_SUCCESS:</b> The synchronization fails and the rollback is successful.</p> <p>The value can be:</p> <ul style="list-style-type: none"> <li>• <b>READY</b></li> <li>• <b>RUNNING</b></li> <li>• <b>SYNCING</b></li> <li>• <b>MIGRATE_SUCCESS</b></li> <li>• <b>MIGRATE_FAIL</b></li> <li>• <b>ABORTING</b></li> <li>• <b>ABORT</b></li> <li>• <b>DELETING</b></li> <li>• <b>SYNC_F_ROLLBACKING</b></li> <li>• <b>SYNC_F_ROLLBACK_SUCCESS</b></li> </ul>
name	No	String	<p>The task name.</p> <p>Minimum length: 0 characters</p> <p>Maximum length: 255 characters</p>

Parameter	Mandatory	Type	Description
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: <b>0</b> Maximum value: <b>200</b> Default value: <b>100</b>
offset	No	Integer	The offset. Minimum value: <b>0</b> Maximum value: <b>65535</b> Default value: <b>0</b>
enterprise_project_id	No	String	The ID of the enterprise project to be queried. Minimum length: 0 characters Maximum length: 255 characters

## Request

Table 5-92 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 <b>X-Subject-Token</b> in the response header is the user token. Minimum length: 1 character Maximum length: 16,384 characters

## Response

Status code: 200

**Table 5-93** 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: <b>0</b> Maximum value: <b>2147483647</b>
tasks	Array of <b>TasksResponseBody</b> objects	The information about the queried tasks. Array length: 0 to 65,535

**Table 5-94** **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. <b>MIGRATE_FILE</b> : file-level migration <b>MIGRATE_BLOCK</b> : block-level migration Minimum length: 0 characters Maximum length: 255 characters The value can be: <ul style="list-style-type: none"> <li>• <b>MIGRATE_FILE</b></li> <li>• <b>MIGRATE_BLOCK</b></li> </ul>

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"> <li>• <b>WINDOWS</b></li> <li>• <b>Linux</b></li> </ul>
state	String	The task status. Minimum length: 0 characters Maximum length: 255 characters
estimate_completion_time	Long	The estimated completion time. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
create_date	Long	The task creation time. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
priority	Integer	The migration process priority. <b>0</b> : low <b>1</b> : standard <b>2</b> : high Minimum value: <b>0</b> Maximum value: <b>2</b> The value can be: <ul style="list-style-type: none"> <li>• <b>0</b></li> <li>• <b>1</b></li> <li>• <b>2</b></li> </ul>
speed_limit	Integer	The migration rate limit. Minimum value: <b>0</b> Maximum value: <b>65535</b>
migrate_speed	Double	The migration rate, in MB/s. Minimum value: <b>0</b> Maximum value: <b>10000</b>

Parameter	Type	Description
compress_rate	Double	The compression rate. Minimum value: <b>0</b> Maximum value: <b>10000</b>
start_target_server	Boolean	Indicates whether the target server is started after the migration is complete. <b>true</b> : indicates that the target server will be launched after the migration is complete. <b>false</b> : indicates that the target server will be stopped after the migration is complete. Default value: <b>false</b>
error_json	String	The error message. Minimum length: 0 characters Maximum length: 1,024 characters
total_time	Long	The task duration. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
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 the private IP address of the target server. Minimum length: 0 characters Maximum length: 255 characters
sub_tasks	Array of <a href="#">SubTaskAssociatedWithTask</a> objects	The information about subtasks associated with the migration task Array length: 0 to 65,535
source_server	<a href="#">SourceServerAssociatedWithTask</a> 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

Parameter	Type	Description
target_server	<a href="#">TargetServerAssociatedWithTask</a> object	The information about the target server associated with the migration task.
log_collect_status	String	The log collection status. 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 The value can be: <ul style="list-style-type: none"> <li>• INIT</li> <li>• TELL_AGENT_TO_COLLECT</li> <li>• WAIT_AGENT_COLLECT_ACK</li> <li>• AGENT_COLLECT_FAIL</li> <li>• AGENT_COLLECT_SUCCESS</li> <li>• WAIT_SERVER_COLLECT</li> <li>• SERVER_COLLECT_FAIL</li> <li>• SERVER_COLLECT_SUCCESS</li> <li>• TELL_AGENT_RESET_ACL</li> <li>• WAIT_AGENT_RESET_ACL_ACK</li> </ul>
clone_server	<a href="#">CloneServerBrief</a> object	The information about the cloned server.
syncing	Boolean	Indicates whether synchronization is enabled.
network_check_info	<a href="#">NetworkCheckInfoRequestBody</a> object	The network performance metrics and measurement results.
special_config	Array of <a href="#">ConfigBody</a> objects	The settings of advanced migration options.

**Table 5-95 SubTaskAssociatedWithTask** field description

Parameter	Type	Description
id	Long	The subtask ID. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
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: <b>0</b> Maximum value: <b>100</b>
start_date	Long	The start time of the subtask. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
end_date	Long	The end time of the subtask. If the subtask is not complete, this parameter is left blank. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
process_trace	String	The detailed progress of the migration or synchronization. Minimum length: 0 characters Maximum length: 2,048 characters

**Table 5-96 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

Parameter	Type	Description
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 source server name in SMS. Minimum length: 0 characters Maximum length: 255 characters
os_type	String	The OS type of the source server, which can be Windows or Linux. 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"> <li>• <b>WINDOWS</b></li> <li>• <b>Linux</b></li> </ul>
os_version	String	The OS version. 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
oem_system	Boolean	Indicates whether the OS is an OEM version (Windows).

Parameter	Type	Description
state	String	<p>The source server status.</p> <p><b>unavailable:</b> The source server fails the environment check.</p> <p><b>waiting:</b> The source server is waiting for migration.</p> <p><b>initialize:</b> The migration of the source server is being initialized.</p> <p><b>replicate:</b> The source server is being replicated.</p> <p><b>syncing:</b> The source server is being synchronized.</p> <p><b>stopping:</b> The migration of the source server is being stopped.</p> <p><b>stopped:</b> The migration of the source server is stopped.</p> <p><b>deleting:</b> The source server record is being deleted.</p> <p><b>error:</b> An error occurs during the migration of the source server.</p> <p><b>cloning:</b> The target server for the source server is being cloned.</p> <p><b>testing:</b> The test is in progress.</p> <p><b>finished:</b> The target server for the source server is launched.</p> <p>The value can be:</p> <ul style="list-style-type: none"> <li>• <b>unavailable</b></li> <li>• <b>waiting</b></li> <li>• <b>initialize</b></li> <li>• <b>replicate</b></li> <li>• <b>syncing</b></li> <li>• <b>stopping</b></li> <li>• <b>stopped</b></li> <li>• <b>deleting</b></li> <li>• <b>error</b></li> <li>• <b>cloning</b></li> <li>• <b>testing</b></li> <li>• <b>finished</b></li> </ul>

**Table 5-97 TargetServerAssociatedWithTask**

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

**Table 5-98 CloneServerBrief** field description

Parameter	Type	Description
vm_id	String	The ID of the cloned server. 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 5-99 NetworkCheckInfoRequestBody** field description

Parameter	Type	Description
network_delay	Double	The network latency. Minimum value: <b>0</b> Maximum value: <b>10000.0</b>
network_jitter	Double	The network jitter. Minimum value: <b>0</b> Maximum value: <b>10000</b>
migration_speed	Double	The bandwidth. Minimum value: <b>0</b> Maximum value: <b>10000</b>
loss_percentage	Double	The packet loss rate. Minimum value: <b>0</b> Maximum value: <b>100</b>
cpu_usage	Double	The CPU usage. Minimum value: <b>0</b> Maximum value: <b>100</b>
mem_usage	Double	The memory usage. Minimum value: <b>0</b> Maximum value: <b>100</b>
evaluation_result	String	The network evaluation result. Minimum length: 5 characters Maximum length: 9 characters

**Table 5-100 ConfigBody** field description

Parameter	Type	Description
config_key	String	The advanced migration option. The value can be <b>EXCLUDE_MIGRATE_PATH</b> , <b>SYNC_EXCLUDE_PATH</b> , or <b>ONLY_SYNC_PATH</b> . Minimum length: 0 characters Maximum length: 255 characters

Parameter	Type	Description
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**

OK

```
{
  "count" : 3,
  "tasks" : [ {
    "id" : "ef3b9722-07a0-40ae-89b0-889ee96dfc56",
    "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" : "f32ab4d6-d150-4fb3-aa55-edbb5cf9947f",
      "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" : "267b25a6-4a5b-4143-96b6-29777db00da1",
      "vm_id" : "",
      "name" : "",
      "ip" : null,
      "os_type" : "LINUX",
      "os_version" : null
    },
    "log_collect_status" : "INIT"
  }
  ]
}
```

```

}, {
  "id": "a5f9cd5a-cfb2-4313-81d1-3dbf19a1e6d1",
  "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": "91718cc3-b5bf-48ce-b196-5035ffd9ff53",
    "ip": "192.168.*.245",
    "name": "xxx-windows-2",
    "os_type": "WINDOWS",
    "os_version": "WINDOWS2012_R2_64BIT",
    "oem_system": false,
    "state": "AVAILABLE"
  },
  "target_server": {
    "id": "71fe0494-442a-408f-b0b3-0143774e4de4",
    "vm_id": "",
    "name": "",
    "ip": null,
    "os_type": "WINDOWS",
    "os_version": "WINDOWS2012_R2_64BIT"
  },
  "log_collect_status": "INIT"
}, {
  "id": "c51407dd-7d1a-4831-bb93-887869d3ab4b",
  "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": "f985ee82-1a94-4839-b983-fb952dbaf00b",
    "vm_id": "a548a4f5-020d-46f8-9b34-59cf1dc60ab6",
    "name": "xxx-sms-target",
    "ip": null,
    "os_type": "WINDOWS",
    "os_version": "WINDOWS2008_R2_64BIT"
  },
  "log_collect_status": "INIT"
}
}

```

## Status Codes

Status Code	Description
200	OK

## 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 **unavailable**, **ready**, **finished**, **error**, or **stopped**.

### Calling Method

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

### URI

POST /v3/tasks/delete

### Request

**Table 5-101** 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 <b>X-Subject-Token</b> in the response header is the user token. Minimum length: 1 character Maximum length: 16,384 characters

**Table 5-102** Request body parameter

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

## Response

**Status code: 200**

OK

None

## Example Request

This example deletes tasks whose IDs are **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	OK

## 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 **unavailable**, **ready**, **finished**, **error**, or **stopped**.

## Calling Method

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

## URI

DELETE /v3/tasks/{task\_id}

**Table 5-103** 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 5-104** 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 <b>X-Subject-Token</b> in the response header is the user token. Minimum length: 1 character Maximum length: 16,384 characters

## Response

**Status code: 200**

**Table 5-105** Response body parameter

Parameter	Type	Description
-	String	The migration task with a specified ID was deleted.

## 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	The migration task with a specified ID was deleted.

## Error Codes

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

## 5.4.5 Querying Details About a Migration Task

### Function

This API is used to query the migration task with 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. The token can be obtained by calling the IAM API used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. 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	<p>The task type. This parameter is mandatory for creating a task and optional for updating a task.</p> <p><b>MIGRATE_FILE</b>: file-level migration <b>MIGRATE_BLOCK</b>: block-level migration</p> <p>Minimum length: 0 characters Maximum length: 255 characters</p> <p>The value can be:</p> <ul style="list-style-type: none"> <li>• <b>MIGRATE_FILE</b></li> <li>• <b>MIGRATE_BLOCK</b></li> </ul>
os_type	String	<p>The OS type. This parameter is mandatory for creating a task and optional for updating a task.</p> <p>The value can be:</p> <ul style="list-style-type: none"> <li>• <b>WINDOWS</b></li> <li>• <b>Linux</b></li> </ul>
id	String	<p>The migration task ID.</p> <p>Minimum length: 0 characters Maximum length: 255 characters</p>
priority	Integer	<p>The migration process priority.</p> <p><b>0</b>: low <b>1</b>: standard (default) <b>2</b>: high</p> <p>Minimum value: <b>0</b> Maximum value: <b>2</b></p> <p>The value can be:</p> <ul style="list-style-type: none"> <li>• <b>0</b></li> <li>• <b>1</b></li> <li>• <b>2</b></li> </ul>
speed_limit	Integer	<p>The migration rate limit.</p> <p>Minimum value: <b>0</b> Maximum value: <b>65535</b></p>
region_id	String	<p>The ID of the region where the target server is located.</p> <p>Minimum length: 0 characters Maximum length: 255 characters</p>

Parameter	Type	Description
start_target_server	Boolean	Indicates whether the target server is started after the migration is complete. <b>true:</b> indicates that the target server will be launched after the migration is complete. <b>false:</b> indicates that the target server will be stopped after the migration is complete. Default value: <b>true</b>
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. 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	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	<a href="#">SourceServerResponse</a> object	The information about the source server in the migration task.

Parameter	Type	Description
target_server	<a href="#">TaskTargetServer</a> object	The information about the target server in the migration task.
state	String	The task status. Minimum length: 0 characters Maximum length: 255 characters
estimate_completion_time	Long	The estimated completion time. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
connected	Boolean	The connection status.
create_date	Long	The task creation time. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
start_date	Long	The task start time. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
finish_date	Long	The task end time. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
migrate_speed	Double	The migration rate, in MB/s. Minimum value: <b>0</b> Maximum value: <b>10000</b>
compress_rate	Double	The compression rate. Minimum value: <b>0</b> Maximum value: <b>10000</b>
error_json	String	The error message. Minimum length: 0 characters Maximum length: 1,024 characters
total_time	Long	The task duration. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>

Parameter	Type	Description
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: <b>0</b> Maximum value: <b>9223372036854775807</b>
target_snapshot_id	String	The ID of the snapshot for the target server. Minimum length: 0 characters Maximum length: 255 characters
clone_server	<b>CloneServer</b> object	The information about the cloned server.
sub_tasks	Array of <b>SubTask</b> objects	The list of subtasks included in the migration task. Array length: 0 to 65,535
network_check_info	<b>NetworkCheckInfoRequestBody</b> 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

Parameter	Type	Description
name	String	The source server name in SMS. Minimum length: 0 characters Maximum length: 255 characters
os_type	String	The OS type of the source server, which can be Windows or Linux. 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"> <li>• <b>WINDOWS</b></li> <li>• <b>Linux</b></li> </ul>
os_version	String	The OS version. 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
oem_system	Boolean	Indicates whether the OS is an OEM version (Windows).

Parameter	Type	Description
state	String	<p>The source server status.</p> <p><b>unavailable:</b> The source server fails the environment check.</p> <p><b>waiting:</b> The source server is waiting for migration.</p> <p><b>initialize:</b> The migration of the source server is being initialized.</p> <p><b>replicate:</b> The source server is being replicated.</p> <p><b>syncing:</b> The source server is being synchronized.</p> <p><b>stopping:</b> The migration of the source server is being stopped.</p> <p><b>stopped:</b> The migration of the source server is stopped.</p> <p><b>deleting:</b> The source server record is being deleted.</p> <p><b>error:</b> An error occurs during the migration of the source server.</p> <p><b>cloning:</b> The target server for the source server is being cloned.</p> <p><b>testing:</b> The test is in progress.</p> <p><b>finished:</b> The target server for the source server is launched.</p> <p>The value can be:</p> <ul style="list-style-type: none"> <li>• <b>unavailable</b></li> <li>• <b>waiting</b></li> <li>• <b>initialize</b></li> <li>• <b>replicate</b></li> <li>• <b>syncing</b></li> <li>• <b>stopping</b></li> <li>• <b>stopped</b></li> <li>• <b>deleting</b></li> <li>• <b>error</b></li> <li>• <b>cloning</b></li> <li>• <b>testing</b></li> <li>• <b>finished</b></li> </ul>

Parameter	Type	Description
migration_cycle	String	<p>The current migration stage of the source server.</p> <p><b>cutovering:</b> The target server for the source server is being launched.</p> <p><b>cutovered:</b> The target server for the source server is launched.</p> <p><b>checking:</b> The check is in progress.</p> <p><b>setting:</b> The configuration is in progress.</p> <p><b>replicating:</b> The data is being replicated.</p> <p><b>syncing:</b> The incremental data is being synchronized.</p> <p>Minimum length: 0 characters Maximum length: 255 characters The value can be:</p> <ul style="list-style-type: none"> <li>• <b>cutovering</b></li> <li>• <b>cutovered</b></li> <li>• <b>checking</b></li> <li>• <b>setting</b></li> <li>• <b>replicating</b></li> <li>• <b>syncing</b></li> </ul>

**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>

Parameter	Type	Description
ip	String	The IP address of the target server. Minimum length: 0 characters Maximum length: 255 characters
os_type	String	The OS type of the source server, which can be Windows or Linux. 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"> <li>• <b>WINDOWS</b></li> <li>• <b>Linux</b></li> </ul>
os_version	String	The OS version. 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
system_dir	String	The system directory. This parameter is mandatory for Windows. Minimum length: 0 characters Maximum length: 255 characters
disks	Array of <b>TargetDisk</b> 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
volume_groups	Array of <b>VolumeGroups</b> objects	The logical volume information of the target server, which is generally the same as that of the source server. Array length: 0 to 65,535

Parameter	Type	Description
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
image_disk_id	String	The ID of the disk that hosts the agent image on the target server. Minimum length: 0 characters Maximum length: 255 characters
cutovered_snapshot_ids	String	The ID of the snapshot used for rollback on the target server. Minimum length: 0 characters Maximum length: 255 characters

**Table 5-111 TargetDisk field description**

Parameter	Type	Description
id	Long	The disk ID. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
device_use	String	The partition function. The partition can be a general, boot, or OS partition. <b>BOOT</b> : boot device <b>OS</b> : system device <b>NORMAL</b> : general device Default value: <b>NORMAL</b> The value can be: <ul style="list-style-type: none"> <li>• <b>NORMAL</b></li> <li>• <b>OS</b></li> <li>• <b>BOOT</b></li> </ul>
disk_id	String	The disk ID. Minimum length: 0 characters Maximum length: 255 characters

Parameter	Type	Description
name	String	The disk name. Minimum length: 0 characters Maximum length: 255 characters
physical_volumes	Array of <a href="#">TargetPhysicalVolumes</a> objects	The logical volume information. Array length: 0 to 65,535
size	Long	The size. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
used_size	Long	The used space. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
disk_index	String	The disk index. Minimum length: 0 characters Maximum length: 255 characters
os_disk	Boolean	Indicates whether the disk is the system disk.
partition_style	String	The disk partition style. This parameter is mandatory for source server registration. <b>MBR</b> : Master Boot Record (MBR) <b>GPT</b> : GUID Partition Table (GPT) The value can be: <ul style="list-style-type: none"> <li>• <b>MBR</b></li> <li>• <b>GPT</b></li> </ul>
relation_name	String	The name of the paired target server disk in 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: <b>0</b> Maximum value: <b>9223372036854775807</b>
device_use	String	The partition function. <b>NORMAL</b> : general device <b>OS</b> : system device <b>BOOT</b> : boot device Default value: <b>NORMAL</b> The value can be: <ul style="list-style-type: none"> <li>• <b>NORMAL</b></li> <li>• <b>OS</b></li> <li>• <b>BOOT</b></li> </ul>
file_system	String	The file system. Minimum length: 0 characters Maximum length: 255 characters
index	Integer	The serial number. Minimum value: <b>0</b> Maximum value: <b>2147483647</b>
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
size	Long	The size. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
used_size	Long	The used space. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
uuid	String	The UUID. Minimum length: 0 characters Maximum length: 255 characters

Parameter	Type	Description
relation_name	String	The name of the paired target server disk in Linux. Minimum length: 0 characters Maximum length: 255 characters
free_size	Long	The idle partition space. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>

**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: <b>0</b> Maximum value: <b>9223372036854775807</b>
logical_volumes	Array of <b>LogicalVolumes</b> objects	The logical volume information. Array length: 0 to 255
name	String	The name. Minimum length: 0 characters Maximum length: 255 characters
size	Long	The size. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>

**Table 5-114 LogicalVolumes** field description

Parameter	Type	Description
block_count	Integer	The number of blocks. Minimum value: <b>0</b> Maximum value: <b>4294967296</b> Default value: <b>0</b>

Parameter	Type	Description
block_size	Long	The block size. Minimum value: <b>0</b> Maximum value: <b>1048576</b> Default value: <b>0</b>
file_system	String	The file system. Minimum length: 0 characters Maximum length: 255 characters
inode_size	Integer	The number of inodes. Minimum value: <b>0</b> Maximum value: <b>4294967296</b>
device_use	Integer	The used space. Minimum value: <b>0</b> Maximum value: <b>4294967296</b>
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: <b>0</b> Maximum value: <b>9223372036854775807</b>
used_size	Long	The used space. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
free_size	Long	The available space. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>

**Table 5-115 CloneServer** field description

Parameter	Type	Description
vm_id	String	The ID of the cloned server. 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 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 5-116 SubTask** field description

Parameter	Type	Description
id	Long	The subtask ID. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
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: <b>0</b> Maximum value: <b>100</b>
start_date	Long	The start time of the subtask. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>

Parameter	Type	Description
end_date	Long	The end time of the subtask. If the subtask is not complete, this parameter is left blank. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
migrate_speed	Double	The migration speed, in Mbit/s. Minimum value: <b>0</b> Maximum value: <b>10000</b>
user_op	String	The user operation that triggers the subtask. Minimum length: 0 characters Maximum length: 50 characters
process_trace	String	The 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
network_delay	Double	The network latency. Minimum value: <b>0</b> Maximum value: <b>10000.0</b>
network_jitter	Double	The network jitter. Minimum value: <b>0</b> Maximum value: <b>10000</b>
migration_speed	Double	The bandwidth. Minimum value: <b>0</b> Maximum value: <b>10000</b>
loss_percentage	Double	The packet loss rate. Minimum value: <b>0</b> Maximum value: <b>100</b>
cpu_usage	Double	The CPU usage. Minimum value: <b>0</b> Maximum value: <b>100</b>

Parameter	Type	Description
mem_usage	Double	The memory usage. Minimum value: <b>0</b> Maximum value: <b>100</b>
evaluation_result	String	The network evaluation result. Minimum length: 5 characters Maximum length: 9 characters

## Example Request

This example queries a migration task with a specified ID.

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

## Example Response

**Status code: 200**

The migration task with a specified ID was queried successfully.

```
{
  "id": "1dcbf9f2-9f2a-4df8-88dc-27e5614a1187",
  "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": "38d53ae9-70e3-4587-89c9-6219d3d4e962",
  "region_name": "region name",
  "region_id": "region id",
  "project_name": "project name",
  "project_id": "b276e6fb38c74aa2ba4598f049745ce9",
  "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" : "1cce5dab-df33-4abe-b2ac-e94fa05d6a01",
  "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" : "c1bd67b6-1caa-403e-9e32-81d2feafcda9",
  "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	The migration task with a specified ID was queried successfully.

## Error Codes

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

## 5.4.6 Updating a Migration Task

### Function

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

### Calling Method

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

### URI

PUT /v3/tasks/{task\_id}

**Table 5-118** Path parameter

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

## Request

**Table 5-119** Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	No	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 <b>X-Subject-Token</b> in the response header is the user token.</p> <p>Minimum length: 1 character Maximum length: 16,384 characters</p>

**Table 5-120** Request body parameters

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

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"> <li>• <b>WINDOWS</b></li> <li>• <b>LINUX</b></li> </ul>
id	No	String	The migration task ID. Minimum length: 0 characters Maximum length: 255 characters
priority	No	Integer	The migration process priority. <b>0</b> : low <b>1</b> : standard (default) <b>2</b> : high Minimum value: <b>0</b> Maximum value: <b>2</b> The value can be: <ul style="list-style-type: none"> <li>• <b>0</b></li> <li>• <b>1</b></li> <li>• <b>2</b></li> </ul>
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 the target server is started after the migration is complete. <b>true</b> : indicates that the target server will be started after the migration is complete. <b>false</b> : indicates that the target server will be stopped after the migration is complete. Default value: <b>true</b>
enterprise_project_id	No	String	The enterprise project ID. Minimum length: 1 character Maximum length: 255 characters

Parameter	Mandatory	Type	Description
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: <b>0</b> Maximum value: <b>10000</b>
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
source_server	No	<b>PostSourceServerBody</b> object	The source server information.
target_server	No	<b>TargetServer</b> object	The target server information.

Parameter	Mandatory	Type	Description
state	No	String	The task status. Minimum length: 0 characters Maximum length: 255 characters
estimate_complete_time	No	Long	The estimated completion time. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
connected	No	Boolean	The connection status.
create_date	No	Long	The task creation time. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
start_date	No	Long	The task start time. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
finish_date	No	Long	The task end time. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
migrate_speed	No	Double	The migration rate, in MB/s. Minimum value: <b>0</b> Maximum value: <b>10000</b>
error_json	No	String	The error message. Minimum length: 0 characters Maximum length: 1,024 characters
total_time	No	Long	The task duration. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>

Parameter	Mandatory	Type	Description
float_ip	No	String	Retain this parameter temporarily to ensure the compatibility with the earlier version of the SMS-Agent. Minimum length: 0 characters Maximum length: 255 characters
remain_seconds	No	Long	The remaining migration time, in seconds. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
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	<a href="#">CloneServer</a> object	The information about the cloned server.
sub_tasks	No	Array of <a href="#">SubTask</a> objects	The list of subtasks included in the migration task. Array length: 0 to 65,535

**Table 5-121 PostSourceServerBody** field description

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	Yes	String	The IP address of the source server. This parameter is mandatory for source server registration and optional for source server updates. Minimum length: 0 characters Maximum length: 255 characters

Parameter	Mandatory	Type	Description
name	Yes	String	The source server name in SMS. Minimum length: 0 characters Maximum length: 255 characters
hostname	No	String	The hostname of the source server. This parameter is mandatory for source server registration and optional for source server updates. Minimum length: 0 characters Maximum length: 255 characters
os_type	Yes	String	The OS type of the source server, which can be Windows or Linux. This parameter is mandatory for source server registration and optional for source server updates. Minimum length: 0 characters Maximum length: 255 characters The value can be: <ul style="list-style-type: none"> <li>• <b>WINDOWS</b></li> <li>• <b>LINUX</b></li> </ul>
os_version	No	String	The OS version. This parameter is mandatory for registration and optional for updates. 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 of the source server, which can be BIOS or UEFI. Minimum length: 0 characters Maximum length: 255 characters The value can be: <ul style="list-style-type: none"> <li>• BIOS</li> <li>• UEFI</li> </ul>
cpu_quantity	No	Integer	The number of vCPUs. Minimum value: <b>0</b> Maximum value: <b>65535</b>
memory	No	Long	The memory size, in MB. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
disks	No	Array of <a href="#">ServerDisk</a> objects	The information about disks on the source server. Array length: 0 to 65,535
btrfs_list	No	Array of <a href="#">BtrfsFileSystem</a> 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
networks	No	Array of <a href="#">NetWork</a> objects	The information about NICs on the source server. Array length: 0 to 65,535
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.

Parameter	Mandatory	Type	Description
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.
boot_loader	No	String	The system boot loader, which can be GRUB or LILO. This parameter is mandatory for Linux. The value can be: <ul style="list-style-type: none"> <li>• <b>GRUB</b></li> <li>• <b>LILO</b></li> </ul>
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 <b>VolumeGroups</b> 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

Parameter	Mandatory	Type	Description
agent_version	Yes	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. <b>cutovering</b> : The target server for the source server is being launched. <b>cutovered</b> : The target server for the source server is launched. <b>checking</b> : The check is in progress. <b>setting</b> : The configuration is in progress. <b>replicating</b> : The data is being replicated. <b>syncing</b> : The incremental data is being synchronized. The value can be: <ul style="list-style-type: none"> <li>• <b>cutovering</b></li> <li>• <b>cutovered</b></li> <li>• <b>checking</b></li> <li>• <b>setting</b></li> <li>• <b>replicating</b></li> <li>• <b>syncing</b></li> </ul>

Parameter	Mandatory	Type	Description
state	No	String	<p>The source server status.</p> <p><b>unavailable:</b> The source server fails the environment check.</p> <p><b>waiting:</b> The source server is waiting for migration.</p> <p><b>initialize:</b> The migration of the source server is being initialized.</p> <p><b>replicate:</b> The source server is being replicated.</p> <p><b>syncing:</b> The source server is being synchronized.</p> <p><b>stopping:</b> The migration of the source server is being stopped.</p> <p><b>stopped:</b> The migration of the source server is stopped.</p> <p><b>deleting:</b> The source server record is being deleted.</p> <p><b>error:</b> An error occurs during the migration of the source server.</p> <p><b>cloning:</b> The target server for the source server is being cloned.</p> <p><b>cutovering:</b> The target server for the source server is being launched.</p> <p><b>finished:</b> The target server for the source server is launched.</p> <p>Minimum length: 0 characters Maximum length: 255 characters</p> <p>The value can be:</p> <ul style="list-style-type: none"> <li>● <b>unavailable</b></li> <li>● <b>waiting</b></li> <li>● <b>initialize</b></li> <li>● <b>replicate</b></li> <li>● <b>syncing</b></li> <li>● <b>stopping</b></li> <li>● <b>stopped</b></li> <li>● <b>deleting</b></li> <li>● <b>error</b></li> </ul>

Parameter	Mandatory	Type	Description
			<ul style="list-style-type: none"> <li>• <b>cloning</b></li> <li>• <b>cutovering</b></li> <li>• <b>finished</b></li> </ul>
oem_system	No	Boolean	Indicates whether the OS is an OEM version (Windows).

**Table 5-122 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 style. This parameter is mandatory for source server registration. <b>MBR</b> : Master Boot Record (MBR) <b>GPT</b> : GUID Partition Table (GPT) The value can be: <ul style="list-style-type: none"> <li>• <b>MBR</b></li> <li>• <b>GPT</b></li> </ul>
device_use	Yes	String	The disk function. <b>BOOT</b> : boot device <b>OS</b> : system device The value can be: <ul style="list-style-type: none"> <li>• <b>BOOT</b></li> <li>• <b>OS</b></li> </ul>
size	Yes	Long	The disk size, in bytes. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
used_size	Yes	Long	The used disk space, in bytes. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>

Parameter	Mandatory	Type	Description
physical_volumes	Yes	Array of <b>PhysicalVolume</b> objects	The information about physical partitions on the disk. Array length: 0 to 65,535
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: <b>0</b> Maximum value: <b>4294967296</b>

**Table 5-123 PhysicalVolume** field description

Parameter	Mandatory	Type	Description
device_use	No	String	The partition function. The partition can be a general, boot, or OS partition. 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. Minimum value: <b>0</b> Maximum value: <b>2147483647</b>
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 size. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
used_size	No	Long	The used space. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
inode_size	No	Integer	The number of inodes. Minimum value: <b>0</b> Maximum value: <b>4294967296</b>
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: <b>0</b> Maximum value: <b>2147483647</b>

**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

Parameter	Mandatory	Type	Description
label	Yes	String	The file system tags. 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 device names of the Btrfs file system. Minimum length: 0 characters Maximum length: 255 characters
size	Yes	Long	The space occupied by the file system data. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
nodesize	Yes	Long	The Btrfs node size. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
sectorsize	Yes	Integer	The sector size. Minimum value: <b>0</b> Maximum value: <b>2147483647</b>
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: <b>0</b> Maximum value: <b>9223372036854775807</b>
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
subvolumn	Yes	Array of <b>BtrfsSubvolumn</b> objects	The subvolume information. Array length: 0 to 65,535

**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

Parameter	Mandatory	Type	Description
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
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 source server in the SMS database. Minimum length: 0 characters Maximum length: 255 characters

Parameter	Mandatory	Type	Description
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 source server registration and optional for source server updates. Minimum length: 0 characters Maximum length: 255 characters
os_type	Yes	String	The OS type of the source server, which can be Windows or Linux. This parameter is mandatory for source server registration and optional for source server updates. Minimum length: 0 characters Maximum length: 255 characters The value can be: <ul style="list-style-type: none"> <li>• <b>WINDOWS</b></li> <li>• <b>LINUX</b></li> </ul>
os_version	No	String	The OS version. This parameter is mandatory for registration and optional for updates. Minimum length: 0 characters Maximum length: 255 characters

Parameter	Mandatory	Type	Description
firmware	No	String	The boot mode of the source server, which can be BIOS or UEFI. Minimum length: 0 characters Maximum length: 255 characters The value can be: <ul style="list-style-type: none"> <li>• BIOS</li> <li>• UEFI</li> </ul>
cpu_quantity	No	Integer	The number of vCPUs. Minimum value: <b>0</b> Maximum value: <b>65535</b>
memory	No	Long	The memory size, in MB. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
disks	Yes	Array of <b>TargetDisk</b> 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
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
networks	No	Array of <b>NetWork</b> objects	The information about NICs on the source server. Array length: 0 to 65,535
domain_id	No	String	The tenant domain ID. Minimum length: 0 characters Maximum length: 255 characters

Parameter	Mandatory	Type	Description
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.
boot_loader	No	String	The system boot loader, which can be GRUB or LILO. This parameter is mandatory for Linux. The value can be: <ul style="list-style-type: none"> <li>• <b>GRUB</b></li> <li>• <b>LILO</b></li> </ul>
system_dir	No	String	The system directory. This parameter is mandatory for Windows. Minimum length: 0 characters Maximum length: 255 characters

Parameter	Mandatory	Type	Description
volume_group_s	No	Array of <b>VolumeGroups</b> objects	The logical volume information of the target server, which is generally the same as that of the source server. Array length: 0 to 65,535
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 that hosts the agent image on the target server. Minimum length: 0 characters Maximum length: 255 characters
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: <b>0</b> Maximum value: <b>9223372036854775807</b>
device_use	No	String	The partition function. The partition can be a general, boot, or OS partition. <b>BOOT</b> : boot device <b>OS</b> : system device <b>NORMAL</b> : general device Default value: <b>NORMAL</b> The value can be: <ul style="list-style-type: none"> <li>• <b>NORMAL</b></li> <li>• <b>OS</b></li> <li>• <b>BOOT</b></li> </ul>
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 <b>TargetPhysicalVolumes</b> objects	The logical volume information. Array length: 0 to 65,535
size	No	Long	The size. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
used_size	No	Long	The used space. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>

Parameter	Mandatory	Type	Description
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 style. This parameter is mandatory for source server registration. <b>MBR</b> : Master Boot Record (MBR) <b>GPT</b> : GUID Partition Table (GPT) The value can be: <ul style="list-style-type: none"> <li>• <b>MBR</b></li> <li>• <b>GPT</b></li> </ul>
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

Parameter	Mandatory	Type	Description
id	No	Long	The logical volume ID. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
device_use	No	String	The partition function. <b>NORMAL</b> : general device <b>OS</b> : system device <b>BOOT</b> : boot device Default value: <b>NORMAL</b> The value can be: <ul style="list-style-type: none"> <li>• <b>NORMAL</b></li> <li>• <b>OS</b></li> <li>• <b>BOOT</b></li> </ul>

Parameter	Mandatory	Type	Description
file_system	No	String	The file system. Minimum length: 0 characters Maximum length: 255 characters
index	No	Integer	The serial number. Minimum value: <b>0</b> Maximum value: <b>2147483647</b>
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: <b>0</b> Maximum value: <b>9223372036854775807</b>
used_size	No	Long	The used space. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
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
free_size	No	Long	The idle partition space. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>

**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: <b>0</b> Maximum value: <b>2147483647</b>
mac	Yes	String	The MAC address. Minimum length: 0 characters Maximum length: 255 characters
id	No	String	The database record 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: <b>0</b> Maximum value: <b>9223372036854775807</b>
logical_volumes	No	Array of <b>LogicalVolumes</b> objects	The logical volume information. Array length: 0 to 255
name	No	String	The name. Minimum length: 0 characters Maximum length: 255 characters
size	No	Long	The size. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>

**Table 5-131 LogicalVolumes** field description

Parameter	Mandatory	Type	Description
block_count	No	Integer	The number of blocks. Minimum value: <b>0</b> Maximum value: <b>4294967296</b> Default value: <b>0</b>
block_size	No	Long	The block size. Minimum value: <b>0</b> Maximum value: <b>1048576</b> Default value: <b>0</b>
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: <b>0</b> Maximum value: <b>4294967296</b>
device_use	No	Integer	The used space. Minimum value: <b>0</b> Maximum value: <b>4294967296</b>
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: <b>0</b> Maximum value: <b>9223372036854775807</b>
used_size	Yes	Long	The used space. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
free_size	Yes	Long	The available space. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>

**Table 5-132 CloneServer** field description

Parameter	Mandatory	Type	Description
vm_id	No	String	The ID of the cloned server. Minimum length: 0 characters Maximum length: 255 characters

Parameter	Mandatory	Type	Description
name	No	String	The name of the cloned server. Minimum length: 0 characters Maximum length: 255 characters
clone_error	No	String	The error 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: <b>0</b> Maximum value: <b>9223372036854775807</b>
name	No	String	The subtask name. Minimum length: 0 characters Maximum length: 255 characters
progress	Yes	Integer	The progress of the subtask. The value is an integer ranging from 0 to 100. Minimum value: <b>0</b> Maximum value: <b>100</b>
start_date	No	Long	The start time of the subtask. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>

Parameter	Mandatory	Type	Description
end_date	No	Long	The end time of the subtask. If the subtask is not complete, this parameter is left blank. Minimum value: <b>0</b> Maximum value: <b>9223372036854775807</b>
migrate_speed	No	Double	The migration speed, in Mbit/s. Minimum value: <b>0</b> Maximum value: <b>10000</b>
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

Status code: 200

Table 5-134 Response body parameter

Parameter	Type	Description
id	String	The task ID. Minimum length: 1 character Maximum length: 255 characters

## Example Request

This example updates a migration task with a specified ID.

```
put https://{endpoint}/v3/tasks/ef3b9722-07a0-40ae-89b0-889ee96dfc56
{
  "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" : "38d53ae9-70e3-4587-89c9-6219d3d4e962",
"region_name" : "region name",
"region_id" : "region id",
"project_name" : "project name",
"project_id" : "b276e6fb38c74aa2ba4598f049745ce9",
"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" : "1cce5dab-df33-4abe-b2ac-e94fa05d6a01",
  "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" : "c1bd67b6-1caa-403e-9e32-81d2feafcd9",
  "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**

This example updates a migration task with a specified ID.

```

{
  "id": "1dcbf9f2-9f2a-4df5-88dc-27a5614a1187"
}

```

## Status Codes

Status Code	Description
200	Updating a migration task with a specified ID succeeded.

## Error Codes

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

## 5.4.7 Managing Migration Tasks

### Function

This API is used to manage 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 5-135** Path parameter

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

### Request

**Table 5-136** Request header parameter

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

**Table 5-137** Request body parameters

Parameter	Mandatory	Type	Description
operation	Yes	String	<p>The operation to be performed on the task.</p> <p><b>start</b>: starting a migration task</p> <p><b>stop</b>: stopping a migration task</p> <p><b>collect_log</b>: collecting logs</p> <p><b>test</b>: performing a test</p> <p><b>clone_test</b>: performing a clone test</p> <p><b>restart</b>: restarting a migration task</p> <p><b>sync_failed_rollback</b>: rolling back a migration task that fails to be synchronized</p> <p>The value can be:</p> <ul style="list-style-type: none"> <li>• <b>start</b></li> <li>• <b>stop</b></li> <li>• <b>collect_log</b></li> <li>• <b>test</b></li> <li>• <b>clone_test</b></li> <li>• <b>restart</b></li> <li>• <b>sync_failed_rollback</b></li> </ul>
param	No	Map<String,String>	The operation parameters.
switch_hce	No	Boolean	<p>Indicates whether changing to Huawei Cloud EulerOS is enabled.</p> <p>Default value: <b>false</b></p>

## Response

**Status code: 200**

OK

None

## Example Request

- This example clones the target server in the task with ID **7a9a9540-ff28-4869-b9e4-855fbe12xxxx**.

```
POST https://{endpoint}/v3/tasks/7a9a9540-ff28-4869-b9e4-855fbe12e83b/action
```

- ```
{
  "operation" : "clone_test"
}
```
- This example launches 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" : "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 rolls back the failed synchronization step in the task with ID **7a9a9540-ff28-4869-b9e4-855fbe12xxxx**.

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

```
{
  "operation" : "sync_failed_rollback"
}
```
- 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 finished task with ID **7a9a9540-ff28-4869-b9e4-855fbe12xxxx**.

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

```
{
  "operation" : "restart"
}
```
- This example uploads logs for the task with ID **7a9a9540-ff28-4869-b9e4-855fbe12xxxx**.

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

```
{
  "operation" : "collect_log"
}
```

## Example Response

None

## Status Codes

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

## 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 5-138** Path parameter

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

### Request

**Table 5-139** Request header parameter

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

**Table 5-140** Request body parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| subtask_name | Yes       | String | <p>The name of the subtask whose progress is reported. The subtask name can be:</p> <p><b>CREATE_CLOUD_SERVER:</b> creating a new server</p> <p><b>SSL_CONFIG:</b> configuring a secure channel</p> <p><b>ATTACH_AGENT_IMAGE:</b> attaching the disk that hosts the agent image</p> <p><b>DETTACH_AGENT_IMAGE:</b> detaching the disk that hosts the agent image</p> <p><b>FORMAT_DISK_LINUX:</b> formatting partitions on Linux</p> <p><b>FORMAT_DISK_LINUX_FILE:</b> formatting partitions on Linux for a file-level migration</p> <p><b>FORMAT_DISK_LINUX_BLOCK:</b> formatting partitions on Linux for a block-level migration</p> <p><b>FORMAT_DISK_WINDOWS:</b> formatting partitions on Windows</p> <p><b>MIGRATE_LINUX_FILE:</b> replicating files on Linux</p> <p><b>MIGRATE_LINUX_BLOCK:</b> replicating blocks on Linux</p> <p><b>MIGRATE_WINDOWS_BLOCK:</b> replicating blocks on Windows</p> <p><b>CLONE_VM:</b> cloning the target server</p> <p><b>SYNC_LINUX_FILE:</b> synchronizing files on Linux</p> <p><b>SYNC_LINUX_BLOCK:</b> synchronizing blocks on Linux</p> <p><b>SYNC_WINDOWS_BLOCK:</b> synchronizing blocks on Windows</p> <p><b>CONFIGURE_LINUX:</b> modifying system configurations on Linux</p> |

| Parameter | Mandatory | Type | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------|-----------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           |           |      | <p><b>CONFIGURE_LINUX_BLOCK:</b><br/>modifying system configurations on Linux for a block-level migration</p> <p><b>CONFIGURE_LINUX_FILE:</b><br/>modifying system configurations on Linux for a file-level migration</p> <p><b>CONFIGURE_WINDOWS:</b><br/>modifying system configurations on Windows<br/>Minimum length: 0 characters<br/>Maximum length: 255 characters<br/>The value can be:</p> <ul style="list-style-type: none"> <li>• <b>CREATE_CLOUD_SERVER</b></li> <li>• <b>SSL_CONFIG</b></li> <li>• <b>ATTACH_AGENT_IMAGE</b></li> <li>• <b>DETTACH_AGENT_IMAGE</b></li> <li>• <b>FORMAT_DISK_LINUX</b></li> <li>• <b>FORMAT_DISK_LINUX_FILE</b></li> <li>• <b>FORMAT_DISK_LINUX_BLOCK</b></li> <li>• <b>FORMAT_DISK_WINDOWS</b></li> <li>• <b>MIGRATE_LINUX_FILE</b></li> <li>• <b>MIGRATE_LINUX_BLOCK</b></li> <li>• <b>MIGRATE_WINDOWS_BLOCK</b></li> <li>• <b>CLONE_VM</b></li> <li>• <b>SYNC_LINUX_FILE</b></li> <li>• <b>SYNC_LINUX_BLOCK</b></li> <li>• <b>SYNC_WINDOWS_BLOCK</b></li> <li>• <b>CONFIGURE_LINUX</b></li> <li>• <b>CONFIGURE_LINUX_BLOCK</b></li> <li>• <b>CONFIGURE_LINUX_FILE</b></li> <li>• <b>CONFIGURE_WINDOWS</b></li> </ul> |

| Parameter     | Mandatory | Type    | Description                                                                                                                                   |
|---------------|-----------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| progress      | Yes       | Integer | The progress of the subtask, in percentage (%).<br>Minimum value: <b>0</b><br>Maximum value: <b>100</b>                                       |
| replicatesize | Yes       | Long    | The amount of data that has been replicated in the subtask, in bytes.<br>Minimum value: <b>0</b><br>Maximum value: <b>9223372036854775807</b> |
| totalsize     | Yes       | Long    | The total amount of data to be migrated in the subtask.<br>Minimum value: <b>0</b><br>Maximum value: <b>9223372036854775807</b>               |
| process_trace | Yes       | String  | The detailed progress of the migration or synchronization.<br>Minimum length: 0 characters<br>Maximum length: 2,048 characters                |
| migrate_speed | No        | Double  | The migration rate in Mbit/s.<br>Minimum value: <b>0</b><br>Maximum value: <b>10000</b>                                                       |
| compress_rate | No        | Double  | The file compression rate.<br>Minimum value: <b>0</b><br>Maximum value: <b>10000</b>                                                          |
| remain_time   | No        | Long    | The remaining time.<br>Minimum value: <b>0</b><br>Maximum value: <b>2147483647</b>                                                            |

## Response

**Status code: 200**

OK

None

## Example Request

This example reports the progress of a task.

```
PUT https://{endpoint}/v3/tasks/7a9a9540-ff28-4869-b9e4-855fbe12xxxx/progress
{
  "subtask_name": "ATTACH_AGENT_IMAGE",
  "progress": 100,
  "replicatesize": 1000,
  "totalsize": 100000,
  "process_trace": ""
}
```

## Example Response

None

## Status Codes

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

## Error Codes

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

## 5.4.9 Querying the Migration Rate Limiting Rules of a Migration Task

### Function

This API is used to query the time range-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 5-141** Path parameter

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

## Request

**Table 5-142** Request header parameter

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

## Response

**Status code: 200**

**Table 5-143** Response body parameter

| Parameter   | Type                                            | Description                                                                                   |
|-------------|-------------------------------------------------|-----------------------------------------------------------------------------------------------|
| speed_limit | Array of <a href="#">SpeedLimitUson</a> objects | The information about the time period-based rate limiting rules.<br>Array length: 0 to 65,535 |

**Table 5-144** [SpeedLimitUson](#) field description

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

| Parameter | Type    | Description                                                                                                                                                                      |
|-----------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| speed     | Integer | The migration rate limit for the specified period. The value is an integer ranging from 0 to 1000. The unit is Mbit/s.<br>Minimum value: <b>0</b><br>Maximum value: <b>10000</b> |

## Example Request

This example queries the migration rate limiting rules for a migration task.

```
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         | OK          |

## Error Codes

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

## 5.4.10 Setting Migration Rate Limiting Rules for a Migration Task

### Function

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

### Calling Method

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

## URI

POST /v3/tasks/{task\_id}/speed-limit

**Table 5-145** Path parameter

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

## Request

**Table 5-146** Request header parameter

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

**Table 5-147** Request body parameter

| Parameter   | Mandatory | Type                                    | Description                                                                                   |
|-------------|-----------|-----------------------------------------|-----------------------------------------------------------------------------------------------|
| speed_limit | Yes       | Array of <b>SpeedLimitUs on</b> objects | The information about the time period-based rate limiting rules.<br>Array length: 0 to 65,535 |

**Table 5-148 SpeedLimitUson field description**

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

## Response

**Status code: 200**

OK

None

## Example Request

- This example sets migration rate limits for a task.

```
POST https://{endpoint}/v3/tasks/7a9a9540-ff28-4869-b9e4-855fbe12e83b/speed-limit
```

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

- This example updates migration rate limits for the task with ID **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         | OK          |

## 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 5-149** Path parameter

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

## Request

**Table 5-150** 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 <b>X-Subject-Token</b> in the response header is the user token.</p> <p>Minimum length: 1 character<br/>Maximum length: 16,384 characters</p> |

## Response

**Status code: 200**

OK

None

## Example Request

This example unlocks the target server in the task with ID **7a9a9540-ff28-4869-b9e4-855fbe12e83b**.

```
POST https://{endpoint}/v3/tasks/7a9a9540-ff28-4869-b9e4-855fbe12e83b/unlock
```

## Example Response

None

## Status Codes

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

## 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 5-151** Path parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                 |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------|
| t_project_id | Yes       | String | The ID of the project to which the target server belongs.<br>Minimum length: 0 characters<br>Maximum length: 255 characters |
| t_network_id | Yes       | String | The ID of the subnet where the target server is located.<br>Minimum length: 0 characters<br>Maximum length: 255 characters  |

**Table 5-152** Query parameters

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

## Request

**Table 5-153** 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 <b>X-Subject-Token</b> in the response header is the user token.</p> <p>Minimum length: 1 character<br/>Maximum length: 16,384 characters</p> |

## Response

**Status code: 200**

OK

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         | OK          |

## 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 for a task.

### Calling Method

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

### URI

GET /v3/tasks/{task\_id}/passphrase

**Table 5-154** Path parameter

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

### Request

**Table 5-155** Request header parameter

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

### Response

**Status code: 200**

**Table 5-156** Response body parameters

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

## Example Request

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

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

## Example Response

**Status code: 200**

Request succeeded.

```
{
  "task_id" : "d7fa81b9-c174-4c0a-a475-51a54c8af8a4",
  "passphrase" : "*****"
}
```

## Status Codes

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

## 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 5-157** Path parameter

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

## Request

**Table 5-158** Request header parameter

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

**Table 5-159** Request body parameters

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

## Response

**Status code: 200**

ok

None

## Example Request

This example uploads logs for a task.

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

## Example Response

None

## Status Codes

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

## 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 on source servers to obtain commands from the SMS server.

### Calling Method

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

### URI

GET /v3/sources/{server\_id}/command

**Table 5-160** Path parameter

| Parameter | Mandatory | Type   | Description                                                                                                                |
|-----------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------|
| server_id | Yes       | String | The ID of the source server that the command is sent to.<br>Minimum length: 0 characters<br>Maximum length: 255 characters |

## Request

**Table 5-161** Request header parameter

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

## Response

**Status code: 200**

**Table 5-162** Response body parameters

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

**Table 5-163 ComandParam** field description

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

**Status code: 400**

**Table 5-164** Response body parameters

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

**Status code: 401**

**Table 5-165** Response body parameters

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

**Status code: 403**

**Table 5-166** Response body parameters

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

**Status code: 404**

**Table 5-167** Response body parameters

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

**Status code: 500**

**Table 5-168** Response body parameters

| Parameter  | Type   | Description                                                                            |
|------------|--------|----------------------------------------------------------------------------------------|
| error_code | String | The error code.<br>Minimum length: 0 characters<br>Maximum length: 255 characters      |
| error_msg  | String | The error message.<br>Minimum length: 0 characters<br>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" : "2c0689c860ad4728a497c91ec0844384"
  }
}
```

## Status Codes

| Status Code | Description            |
|-------------|------------------------|
| 200         | OK                     |
| 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 Command Execution Results 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 5-169** 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.<br><br>Minimum length: 0 characters<br>Maximum length: 255 characters |

## Request

**Table 5-170** Request header parameter

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

**Table 5-171** Request body parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                                                      |
|--------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| command_name | Yes       | String | The command name. The value can be <b>START</b> , <b>STOP</b> , <b>DELETE</b> , <b>SYNC</b> , <b>UPLOAD_LOG</b> , or <b>RSET_LOG_ACL</b> .<br><br>Minimum length: 0 characters<br>Maximum length: 255 characters |

| Parameter     | Mandatory | Type   | Description                                                                                                                                                                                                                                                         |
|---------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| result        | Yes       | String | The command execution result.<br><ul style="list-style-type: none"> <li>□ <b>success:</b> The command is executed successfully.</li> <li>□ <b>fail:</b> The command fails to be executed.</li> </ul> Minimum length: 0 characters<br>Maximum length: 255 characters |
| result_detail | Yes       | Object | The command execution results in JSON format. This parameter is used only to save command execution results to the SMS database.                                                                                                                                    |

## Response

**Status code: 200**

OK

**Status code: 400**

**Table 5-172** Response body parameters

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

**Status code: 401**

**Table 5-173** Response body parameters

| Parameter  | Type   | Description                                                                       |
|------------|--------|-----------------------------------------------------------------------------------|
| error_code | String | The error code.<br>Minimum length: 0 characters<br>Maximum length: 255 characters |

| Parameter | Type   | Description                                                                            |
|-----------|--------|----------------------------------------------------------------------------------------|
| error_msg | String | The error message.<br>Minimum length: 0 characters<br>Maximum length: 1,024 characters |

**Status code: 403**

**Table 5-174** Response body parameters

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

**Status code: 404**

**Table 5-175** Response body parameters

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

**Status code: 500**

**Table 5-176** Response body parameters

| Parameter  | Type   | Description                                                                       |
|------------|--------|-----------------------------------------------------------------------------------|
| error_code | String | The error code.<br>Minimum length: 0 characters<br>Maximum length: 255 characters |

| Parameter | Type   | Description                                                                            |
|-----------|--------|----------------------------------------------------------------------------------------|
| error_msg | String | The error message.<br>Minimum length: 0 characters<br>Maximum length: 1,024 characters |

## Example Request

This example reports command execution results.

```
POST https://{endpoint}/v3/sources/f32ab4d6-d150-4fb3-aa55-edbb5cf9947f/command_result
{
  "command_name": "START",
  "result": "success",
  "result_detail": {
    "msg": "xxx"
  }
}
```

## Example Response

None

## Status Codes

| Status Code | Description            |
|-------------|------------------------|
| 200         | OK                     |
| 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 5-177** Request header parameter

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

**Table 5-178** Request body parameter

| Parameter | Mandatory | Type                                   | Description               |
|-----------|-----------|----------------------------------------|---------------------------|
| template  | Yes       | <a href="#">TemplateRequest</a> object | The template information. |

**Table 5-179** TemplateRequest field description

| Parameter | Mandatory | Type   | Description                                                                          |
|-----------|-----------|--------|--------------------------------------------------------------------------------------|
| name      | Yes       | String | The template name.<br>Minimum length: 0 characters<br>Maximum length: 255 characters |

| Parameter          | Mandatory | Type                       | Description                                                                                                                                                                                                                                                                   |
|--------------------|-----------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                                                                                                                                 |
| projectid          | Yes       | String                     | The project ID.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                                                                                                                             |
| target_server_name | No        | String                     | The server name.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                                                                                                                            |
| availability_zone  | No        | String                     | The AZ.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                                                                                                                                     |
| volumetype         | No        | String                     | The disk type.<br><b>SAS</b> : serial attached SCSI<br><b>SSD</b> : solid-state drive<br><b>SATA</b> : serial advanced technology attachment<br>The value can be: <ul style="list-style-type: none"> <li>• <b>SAS</b></li> <li>• <b>SSD</b></li> <li>• <b>SATA</b></li> </ul> |
| flavor             | No        | String                     | The server flavor.<br>Minimum length: 0 characters<br>Maximum length: 65,535 characters                                                                                                                                                                                       |
| vpc                | No        | <b>VpcObject</b><br>object | The VPC information.                                                                                                                                                                                                                                                          |

| Parameter        | Mandatory | Type                                 | Description                                                                                                                                                                                                                                                                        |
|------------------|-----------|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| nics             | No        | Array of <b>Nics</b> objects         | The NIC information. Multiple NICs are supported. To let the system automatically add a NIC, configure only one NIC entry and set the ID to <b>autoCreate</b> .<br>Array length: 0 to 65,535                                                                                       |
| security_groups  | No        | Array of <b>SgObject</b> objects     | The security group information. Multiple security groups are supported. To let the system automatically create a security group, configure only one security group record and set the ID to <b>autoCreate</b> .<br>Array length: 0 to 65,535                                       |
| publicip         | No        | <b>PublicIp</b> object               | The public IP address information.                                                                                                                                                                                                                                                 |
| disk             | No        | Array of <b>TemplateDisk</b> objects | The disk information.<br>Array length: 0 to 65,535                                                                                                                                                                                                                                 |
| data_volume_type | No        | String                               | The data disk type.<br><b>SAS</b> : serial attached SCSI<br><b>SSD</b> : solid-state drive<br><b>SATA</b> : serial advanced technology attachment<br>The value can be: <ul style="list-style-type: none"> <li>• <b>SAS</b></li> <li>• <b>SSD</b></li> <li>• <b>SATA</b></li> </ul> |
| target_password  | No        | String                               | The server login password.<br>Minimum length: 0 characters<br>Maximum length: 1,024 characters                                                                                                                                                                                     |
| image_id         | No        | String                               | The ID of the image for server creation.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                                                                                                         |

**Table 5-180 VpcObject** field description

| Parameter | Mandatory | Type   | Description                                                                                                                                                          |
|-----------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id        | Yes       | String | The VPC ID. To let the system automatically create a VPC, set this parameter to <b>autoCreate</b> .<br>Minimum length: 1 character<br>Maximum length: 255 characters |
| name      | Yes       | String | The VPC name.<br>Minimum length: 1 character<br>Maximum length: 255 characters                                                                                       |
| cidr      | No        | String | The VPC CIDR block. The default value is <b>192.168.0.0/16</b> .<br>Minimum length: 1 character<br>Maximum length: 255 characters                                    |

**Table 5-181 Nics** field description

| Parameter | Mandatory | Type   | Description                                                                                                                                                                 |
|-----------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id        | Yes       | String | The subnet ID. To let the system automatically create a subnet, set this parameter to <b>autoCreate</b> .<br>Minimum length: 0 characters<br>Maximum length: 255 characters |
| name      | Yes       | String | The subnet name.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                          |
| cidr      | Yes       | String | The subnet gateway/mask.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                  |

| Parameter | Mandatory | Type   | Description                                                                                                                                                                      |
|-----------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ip        | No        | String | The server IP address. If this parameter is not specified, the system will automatically assign an IP address.<br>Minimum length: 0 characters<br>Maximum length: 255 characters |

**Table 5-182 SgObject** field description

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

**Table 5-183 PublicIp** field description

| Parameter | Mandatory | Type   | Description                                                                                                         |
|-----------|-----------|--------|---------------------------------------------------------------------------------------------------------------------|
| type      | Yes       | String | The EIP type. The default value is <b>5_bgp</b> .<br>Minimum length: 0 characters<br>Maximum length: 255 characters |

| Parameter            | Mandatory | Type    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------|-----------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| bandwidth_size       | Yes       | Integer | <p>The bandwidth size in Mbit/s. The minimum increment for bandwidth adjustment varies depending on the bandwidth range.</p> <p>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.</p> <p>Minimum value: <b>1</b><br/>Maximum value: <b>2000</b></p> |
| bandwidth_share_type | No        | String  | <p>The bandwidth type, shared or dedicated.</p> <p>Minimum length: 0 characters<br/>Maximum length: 255 characters</p>                                                                                                                                                                                                                                                                                                                                                                   |

**Table 5-184 TemplateDisk** field description

| Parameter | Mandatory | Type    | Description                                                                                                                |
|-----------|-----------|---------|----------------------------------------------------------------------------------------------------------------------------|
| id        | No        | Long    | <p>The disk ID.</p> <p>Minimum value: <b>0</b><br/>Maximum value: <b>9223372036854775807</b></p>                           |
| index     | Yes       | Integer | <p>The disk serial number, starting from <b>0</b>.</p> <p>Minimum value: <b>0</b><br/>Maximum value: <b>2147483647</b></p> |
| name      | Yes       | String  | <p>The disk name.</p> <p>Minimum length: 0 characters<br/>Maximum length: 255 characters</p>                               |

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

## Response

Status code: 200

Table 5-185 Response body parameter

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

## Example Request

- This example creates a template during the creation of a migration task where a new target server will be created.

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

```
{
  "template": {
    "name": "",
    "is_template": false,
    "region": "region",
    "target_server_name": "abcd",
    "availability_zone": "availability_zone",
    "projectid": "00924d0ad2df4f21ac476dd9f3288xxx",
    "volumetype": "",
    "image_id": "",
    "vpc": {
      "id": "00cda768-ef7b-40ac-a555-84b0c2b85d89",
      "name": "sms-1566979232(192.168.0.0/16)"
    },
    "security_groups": [ {
```

```

    "id" : "00d57b53-c00b-4d0a-975b-0f3c4fcf93c8",
    "name": "kubernetes.io-default-sg (Inbound: udp/1-65535;tcp/22,1-65535,3389; Outbound: --) "
  } ],
  "nics" : [ {
    "id" : "b5891372-f48c-4b3c-9f7a-ab58da5baa93",
    "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" : "00924d0ad2df4f21ac476dd9f3288xxx",
    "target_password" : "*****",
    "flavor" : "c3.medium.2",
    "vpc" : {
      "id" : "e7069fc1-e09e-4ded-8570-6b3bb2a5893b",
      "name" : "Migrate-SSd-1",
      "cidr" : "192.168.0.0/16"
    },
    "nics" : [ {
      "id" : "c5c7d1a2-a204-4cee-8f11-26ac97a50d13",
      "name" : "Migrate-SSd-35",
      "cidr" : "192.168.0.0/16",
      "ip" : ""
    } ],
    "security_groups" : [ {
      "id" : "003ae8fc-066a-45cd-8a9c-995b1def8c26",
      "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" : "2bf4344f-8f1f-414e-bb1b-8c2f59ada67f"
}
```

## Status Codes

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

## Error Codes

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

## 5.6.2 Listing Templates

### Function

This API is used to list templates used for setting up target servers. You can use these templates for quick configuration.

### Calling Method

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

### URI

GET /v3/vm/templates

**Table 5-186** Query parameters

| Parameter         | Mandatory | Type   | Description                                                                          |
|-------------------|-----------|--------|--------------------------------------------------------------------------------------|
| name              | No        | String | The template name.<br>Minimum length: 0 characters<br>Maximum length: 255 characters |
| availability_zone | No        | String | The AZ.<br>Minimum length: 0 characters<br>Maximum length: 255 characters            |

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

## Request

**Table 5-187** Request header parameter

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

## Response

**Status code: 200**

**Table 5-188** Response body parameters

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

**Table 5-189** TemplateResponseBody field description

| Parameter          | Type   | Description                                                                                                                                                                                     |
|--------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id                 | String | The template ID.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                                              |
| name               | String | The template name.<br>Minimum length: 0 characters<br>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.<br>Minimum length: 0 characters<br>Maximum length: 255 characters |
| region             | String | The region.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                                                   |
| projectid          | String | The project ID.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                                               |
| target_server_name | String | The server name.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                                              |
| availability_zone  | String | The AZ.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                                                       |

| Parameter        | Type                                 | Description                                                                                                                                                                                                                                                                        |
|------------------|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| volumetype       | String                               | The data disk type.<br><b>SAS</b> : serial attached SCSI<br><b>SSD</b> : solid-state drive<br><b>SATA</b> : serial advanced technology attachment<br>The value can be: <ul style="list-style-type: none"> <li>• <b>SAS</b></li> <li>• <b>SSD</b></li> <li>• <b>SATA</b></li> </ul> |
| flavor           | String                               | The server flavor.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                                                                                                                               |
| vpc              | <b>VpcObject</b> object              | The VPC information.                                                                                                                                                                                                                                                               |
| nics             | Array of <b>Nics</b> objects         | The NIC information. Multiple NICs are supported. To let the system automatically add a NIC, configure only one NIC entry and set the ID to <b>autoCreate</b> .<br>Array length: 0 to 65,535                                                                                       |
| security_groups  | Array of <b>SgObject</b> objects     | The security group information. Multiple security groups are supported. To let the system automatically create a security group, configure only one security group record and set the ID to <b>autoCreate</b> .<br>Array length: 0 to 65,535                                       |
| publicip         | <b>PublicIp</b> object               | The public IP address information.                                                                                                                                                                                                                                                 |
| disk             | Array of <b>TemplateDisk</b> objects | The disk information.<br>Array length: 0 to 65,535                                                                                                                                                                                                                                 |
| data_volume_type | String                               | The data disk type.<br><b>SAS</b> : serial attached SCSI<br><b>SSD</b> : solid-state drive<br><b>SATA</b> : serial advanced technology attachment<br>The value can be: <ul style="list-style-type: none"> <li>• <b>SAS</b></li> <li>• <b>SSD</b></li> <li>• <b>SATA</b></li> </ul> |

| Parameter       | Type   | Description                                                                                     |
|-----------------|--------|-------------------------------------------------------------------------------------------------|
| target_password | String | The server login password.<br>Minimum length: 0 characters<br>Maximum length: 1,024 characters  |
| image_id        | String | The ID of the selected image.<br>Minimum length: 0 characters<br>Maximum length: 255 characters |

**Table 5-190 VpcObject** field description

| Parameter | Type   | Description                                                                                                                                                          |
|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id        | String | The VPC ID. To let the system automatically create a VPC, set this parameter to <b>autoCreate</b> .<br>Minimum length: 1 character<br>Maximum length: 255 characters |
| name      | String | The VPC name.<br>Minimum length: 1 character<br>Maximum length: 255 characters                                                                                       |
| cidr      | String | The VPC CIDR block. The default value is <b>192.168.0.0/16</b> .<br>Minimum length: 1 character<br>Maximum length: 255 characters                                    |

**Table 5-191 Nics** field description

| Parameter | Type   | Description                                                                                                                                                                 |
|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id        | String | The subnet ID. To let the system automatically create a subnet, set this parameter to <b>autoCreate</b> .<br>Minimum length: 0 characters<br>Maximum length: 255 characters |
| name      | String | The subnet name.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                          |
| cidr      | String | The subnet gateway/mask.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                  |

| Parameter | Type   | Description                                                                                                                                                                      |
|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ip        | String | The server IP address. If this parameter is not specified, the system will automatically assign an IP address.<br>Minimum length: 0 characters<br>Maximum length: 255 characters |

**Table 5-192 SgObject** field description

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

**Table 5-193 PublicIp** field description

| Parameter      | Type    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| type           | String  | The EIP type. The default value is <b>5_bgp</b> .<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                                                                                                                                                                                                                                                                                         |
| bandwidth_size | Integer | The bandwidth size in Mbit/s.<br>The minimum increment for bandwidth adjustment varies depending on the bandwidth range.<br>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.<br>Minimum value: <b>1</b><br>Maximum value: <b>2000</b> |

| Parameter            | Type   | Description                                                                                                |
|----------------------|--------|------------------------------------------------------------------------------------------------------------|
| bandwidth_share_type | String | The bandwidth type, shared or dedicated.<br>Minimum length: 0 characters<br>Maximum length: 255 characters |

**Table 5-194 TemplateDisk** field description

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

## Example Request

This example queries the template list.

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

## Example Response

**Status code: 200**

OK

```
{
  "count" : 9,
  "templates" : [ {
    "id" : "3db302e8-95de-478c-a892-8a083f2d269b",
    "name" : "test",
    "region" : "region",
    "availability_zone" : "availability_zone",
    "projectid" : "c6e3047501b340a4a79fb94dad453676",
    "flavor" : "s2.large.2",
    "volumetype" : "",
    "image_id" : "",
    "vpc" : {
      "id" : "4d329f4b-70ee-4996-ba9a-5b5ec63a7c2e",
      "name" : "vpc-dfdb"
    },
    "nics" : [ {
      "id" : "d807e702-a59a-480c-aa5e-23449775d107",
      "name" : "subnet-dfdb(192.168.1.0/24)",
      "cidr" : "192.168.1.0/24",
      "ip" : ""
    } ],
    "security_groups" : [ {
      "id" : "c922bce4-1892-44bc-a58e-f250a666939a",
      "name" : "default(Inbound:tcp/8900,8899,3389,22; Outbound:--)"
    } ]
  }, {
    "id" : "708847ae-f013-4b1a-8ea8-6cfa1e94237d",
    "name" : "test1",
    "region" : "region",
    "availability_zone" : "availability_zone",
    "projectid" : "05a6d0f34380269c2f02c016826878ea",
    "flavor" : "s6.large.2",
    "volumetype" : "",
    "image_id" : "",
    "vpc" : {
      "id" : "ee756d79-6223-464b-a3f4-a1e048309fdb",
      "name" : "vpc-13d6"
    },
    "nics" : [ {
      "id" : "768b0328-7b01-4d34-9afc-03e88025ff05",
      "name" : "subnet-13d6(192.168.1.0/24)",
      "cidr" : "192.168.1.0/24",
      "ip" : ""
    } ],
    "security_groups" : [ {
      "id" : "bf736dd6-7e7e-42ba-a1d3-b3a9f6a5fda5",
      "name" : "sms-1568190885(Inbound:tcp/8900,8899,3389; Outbound:--)"
    } ]
  }, {
    "id" : "6874cb49-48bb-4875-975d-4bca464d8472",
    "name" : "test2",
    "region" : "region",
    "availability_zone" : "availability_zone",
    "projectid" : "353b5ccc3deb4abc8ac8291bf468f69c",
    "flavor" : "s2.large.2",
    "volumetype" : "",
    "image_id" : "",
    "vpc" : {
      "id" : "a1f9de64-bf00-4c4f-8c97-ebc65f9e1e2e",
      "name" : "vpc-testcloud(192.168.0.0/16)"
    },
    "nics" : [ {
      "id" : "04ba310f-34df-4df3-9385-11552aafff03",
      "name" : "subnet-testcloud(192.168.0.0/24)",
      "cidr" : "192.168.0.0/24",
      "ip" : ""
    } ],
    "security_groups" : [ ]
  } ]
}
```

```

}, {
  "id": "76b8b2b2-b730-4000-b0a3-048f80105dd2",
  "name": "fdff",
  "region": "region",
  "availability_zone": "availability_zone",
  "projectid": "00924d0ad2df4f21ac476dd9f32888f1",
  "flavor": "s2.large.2",
  "volumetype": "",
  "image_id": "",
  "vpc": {
    "id": "d6f34811-1a4d-4686-911a-982c8e2c1f1b",
    "name": "vpc-migration(192.168.0.0/16)"
  },
  "nics": [ {
    "id": "85ca07d5-7d0d-40ce-b1b2-9dd2db14f840",
    "name": "subnet-cf42(192.168.5.0/24)",
    "cidr": "192.168.5.0/24",
    "ip": ""
  } ],
  "security_groups": [ {
    "id": "a563735f-4183-40de-854f-5ba2cb26496d",
    "name": "sg-smt-test(Inbound:tcp/3389,8899,22,8900; Outbound:--)"
  } ]
}, {
  "id": "382f66f9-b948-4bee-b2a8-50b9d3461c81",
  "name": "test3",
  "region": "region",
  "availability_zone": "availability_zone",
  "projectid": "00924d0ad2df4f21ac476dd9f32888f1",
  "flavor": "s2.medium.2",
  "volumetype": "",
  "image_id": "",
  "vpc": { },
  "nics": [ ],
  "security_groups": [ ]
}, {
  "id": "b3c49d20-720a-486f-9d61-b56e6b5bca39",
  "name": "test_linux_childproj",
  "region": "region",
  "availability_zone": "availability_zone",
  "projectid": "062b8cb8ec8010dc2f42c0167c4631f9",
  "flavor": "s2.small.1",
  "volumetype": "SATA",
  "image_id": "",
  "vpc": {
    "id": "b09cebf9-6887-4c58-a353-008dae644f6e",
    "name": "sms-1567992634(192.168.0.0/16)"
  },
  "nics": [ {
    "id": "34688a59-2fd9-422d-a373-87460ef60014",
    "name": "sms-1567992646(192.168.0.0/16)",
    "cidr": "192.168.0.0/16",
    "ip": ""
  } ],
  "security_groups": [ {
    "id": "079feb0-cfd2-4722-82d6-a518ea65cd67",
    "name": "sg-7e50(Inbound:tcp/8900,8899,3389,22; Outbound:--)"
  } ]
}, {
  "id": "bda09f7f-3b0c-4bb5-a1ad-3a4d62024774",
  "name": "12212",
  "region": "region",
  "availability_zone": "availability_zone",
  "projectid": "2c0689c860ad4728a497c91ec0844383",
  "flavor": "s2.large.2",
  "volumetype": "",
  "image_id": "",
  "vpc": {
    "id": "4490ab3f-5f0c-42e9-97b7-8b3bc0541e70",

```

```

    "name": "vpc-migration(192.168.0.0/16)"
  },
  "nics": [ {
    "id": "350a355b-53db-4e58-80fc-56841ab55021",
    "name": "subnet-migration(192.168.1.0/24)",
    "cidr": "192.168.1.0/24",
    "ip": ""
  } ],
  "security_groups": [ {
    "id": "410f9e21-1085-41b8-b5f7-0da0089be8e3",
    "name": "SMT-Windows(Inbound:tcp/8443,8899,8900,22,3389;icmp; Outbound:--)"
  } ]
}, {
  "id": "7d0b56ff-f9c7-478d-9017-120bbdf4b363",
  "name": "test4",
  "region": "region",
  "availability_zone": "availability_zone",
  "projectid": "00924d0ad2df4f21ac476dd9f32888f1",
  "flavor": "s2.medium.2",
  "volumetype": "SATA",
  "image_id": "",
  "vpc": { },
  "nics": [ ],
  "security_groups": [ ]
}, {
  "id": "ec4ac7de-dba1-4602-b327-c228243651db",
  "name": "dddd",
  "region": "region",
  "availability_zone": "availability_zone",
  "projectid": "2c0689c860ad4728a497c91ec0844383",
  "flavor": "s2.large.2",
  "volumetype": "",
  "image_id": "",
  "vpc": {
    "id": "00cda768-ef7b-40ac-a555-84b0c2b85d89",
    "name": "sms-1566979232(192.168.0.0/16)"
  },
  "nics": [ {
    "id": "b5891372-f48c-4b3c-9f7a-ab58da5baa93",
    "name": "sms-1566979244(192.168.0.0/16)",
    "cidr": "192.168.0.0/16",
    "ip": ""
  } ],
  "security_groups": [ ]
} ]
}

```

## Status Codes

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

## 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 5-195** Request header parameter

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

**Table 5-196** Request body parameter

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

### Response

**Status code: 200**

OK  
None

## Example Request

This example deletes templates whose IDs are **3db302e8-95de-478c-a892-8a083f2d269b** and **708847ae-f013-4b1a-8ea8-6cfa1e94237d**.

```
POST https://{endpoint}/v3/vm/templates/delete
{
  "ids" : [ "3db302e8-95de-478c-a892-8a083f2d269b", "708847ae-f013-4b1a-8ea8-6cfa1e94237d" ]
}
```

## Example Response

None

## Status Codes

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

## 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 5-197** Path parameter

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

## Request

**Table 5-198** Request header parameter

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

## Response

**Status code: 200**

OK

None

## Example Request

This example deletes 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         | OK          |

## 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 5-199** Path parameter

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

## Request

**Table 5-200** Request header parameter

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

## Response

**Status code: 200**

**Table 5-201** Response body parameter

| Parameter | Type                                        | Description               |
|-----------|---------------------------------------------|---------------------------|
| template  | <a href="#">TemplateResponseBody</a> object | The template information. |

**Table 5-202** [TemplateResponseBody](#) field description

| Parameter   | Type   | Description                                                                                                                                                                                     |
|-------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id          | String | The template ID.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                                              |
| name        | String | The template name.<br>Minimum length: 0 characters<br>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.<br>Minimum length: 0 characters<br>Maximum length: 255 characters |

| Parameter          | Type                             | Description                                                                                                                                                                                                                                                                        |
|--------------------|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| region             | String                           | The region.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                                                                                                                                      |
| projectid          | String                           | The project ID.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                                                                                                                                  |
| target_server_name | String                           | The server name.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                                                                                                                                 |
| availability_zone  | String                           | The AZ.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                                                                                                                                          |
| volumetype         | String                           | The data disk type.<br><b>SAS</b> : serial attached SCSI<br><b>SSD</b> : solid-state drive<br><b>SATA</b> : serial advanced technology attachment<br>The value can be: <ul style="list-style-type: none"> <li>• <b>SAS</b></li> <li>• <b>SSD</b></li> <li>• <b>SATA</b></li> </ul> |
| flavor             | String                           | The server flavor.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                                                                                                                               |
| vpc                | <b>VpcObject</b> object          | The VPC information.                                                                                                                                                                                                                                                               |
| nics               | Array of <b>Nics</b> objects     | The NIC information. Multiple NICs are supported. To let the system automatically add a NIC, configure only one NIC entry and set the ID to <b>autoCreate</b> .<br>Array length: 0 to 65,535                                                                                       |
| security_groups    | Array of <b>SgObject</b> objects | The security group information. Multiple security groups are supported. To let the system automatically create a security group, configure only one security group record and set the ID to <b>autoCreate</b> .<br>Array length: 0 to 65,535                                       |

| Parameter        | Type                                 | Description                                                                                                                                                                                                                                                                        |
|------------------|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| publicip         | <b>PublicIp</b> object               | The public IP address information.                                                                                                                                                                                                                                                 |
| disk             | Array of <b>TemplateDisk</b> objects | The disk information.<br>Array length: 0 to 65,535                                                                                                                                                                                                                                 |
| data_volume_type | String                               | The data disk type.<br><b>SAS</b> : serial attached SCSI<br><b>SSD</b> : solid-state drive<br><b>SATA</b> : serial advanced technology attachment<br>The value can be: <ul style="list-style-type: none"> <li>• <b>SAS</b></li> <li>• <b>SSD</b></li> <li>• <b>SATA</b></li> </ul> |
| target_password  | String                               | The server login password.<br>Minimum length: 0 characters<br>Maximum length: 1,024 characters                                                                                                                                                                                     |
| image_id         | String                               | The ID of the selected image.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                                                                                                                    |

**Table 5-203 VpcObject** field description

| Parameter | Type   | Description                                                                                                                                                          |
|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id        | String | The VPC ID. To let the system automatically create a VPC, set this parameter to <b>autoCreate</b> .<br>Minimum length: 1 character<br>Maximum length: 255 characters |
| name      | String | The VPC name.<br>Minimum length: 1 character<br>Maximum length: 255 characters                                                                                       |
| cidr      | String | The VPC CIDR block. The default value is <b>192.168.0.0/16</b> .<br>Minimum length: 1 character<br>Maximum length: 255 characters                                    |

**Table 5-204 Nics** field description

| Parameter | Type   | Description                                                                                                                                                                      |
|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id        | String | The subnet ID. To let the system automatically create a subnet, set this parameter to <b>autoCreate</b> .<br>Minimum length: 0 characters<br>Maximum length: 255 characters      |
| name      | String | The subnet name.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                               |
| cidr      | String | The subnet gateway/mask.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                       |
| ip        | String | The server IP address. If this parameter is not specified, the system will automatically assign an IP address.<br>Minimum length: 0 characters<br>Maximum length: 255 characters |

**Table 5-205 SgObject** field description

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

**Table 5-206 PublicIp** field description

| Parameter | Type   | Description                                                                                                         |
|-----------|--------|---------------------------------------------------------------------------------------------------------------------|
| type      | String | The EIP type. The default value is <b>5_bgp</b> .<br>Minimum length: 0 characters<br>Maximum length: 255 characters |

| Parameter            | Type    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| bandwidth_size       | Integer | The bandwidth size in Mbit/s.<br>The minimum increment for bandwidth adjustment varies depending on the bandwidth range.<br>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.<br>Minimum value: <b>1</b><br>Maximum value: <b>2000</b> |
| bandwidth_share_type | String  | The bandwidth type, shared or dedicated.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                                                                                                                                                                                                                                                                                                  |

**Table 5-207 TemplateDisk** field description

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

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

## Example Request

This example queries the 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": "6874cb49-48bb-4875-975d-4bca464d8472",
    "name": "test1025",
    "region": "region",
    "target_server_name": "",
    "availability_zone": "availability_zone",
    "projectid": "353b5ccc3deb4abc8ac8291bf468f69c",
    "flavor": "s2.large.2",
    "volumetype": "",
    "image_id": "",
    "vpc": {
      "id": "a1f9de64-bf00-4c4f-8c97-ebc65f9e1e2e",
      "name": "vpc-testcloud(192.168.0.0/16)"
    },
    "nics": [ {
      "id": "04ba310f-34df-4df3-9385-11552aaff03",
      "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         | OK          |

## Error Codes

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

## 5.6.6 Modifying a Template

### Function

This API is used to modify a template.

### Calling Method

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

### URI

PUT /v3/vm/templates/{id}

**Table 5-208** Path parameter

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

## Request

**Table 5-209** Request header parameter

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

**Table 5-210** Request body parameter

| Parameter | Mandatory | Type                          | Description               |
|-----------|-----------|-------------------------------|---------------------------|
| template  | No        | <b>TemplateRequest</b> object | The template information. |

**Table 5-211** TemplateRequest field description

| Parameter   | Mandatory | Type    | Description                                                                                                                   |
|-------------|-----------|---------|-------------------------------------------------------------------------------------------------------------------------------|
| name        | Yes       | String  | The template name.<br>Minimum length: 0 characters<br>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.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                 |

| Parameter          | Mandatory | Type                         | Description                                                                                                                                                                                                                                                                   |
|--------------------|-----------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| projectid          | Yes       | String                       | The project ID.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                                                                                                                             |
| target_server_name | No        | String                       | The server name.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                                                                                                                            |
| availability_zone  | No        | String                       | The AZ.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                                                                                                                                     |
| volumetype         | No        | String                       | The disk type.<br><b>SAS</b> : serial attached SCSI<br><b>SSD</b> : solid-state drive<br><b>SATA</b> : serial advanced technology attachment<br>The value can be: <ul style="list-style-type: none"> <li>• <b>SAS</b></li> <li>• <b>SSD</b></li> <li>• <b>SATA</b></li> </ul> |
| flavor             | No        | String                       | The server flavor.<br>Minimum length: 0 characters<br>Maximum length: 65,535 characters                                                                                                                                                                                       |
| vpc                | No        | <b>VpcObject</b> object      | The VPC information.                                                                                                                                                                                                                                                          |
| nics               | No        | Array of <b>Nics</b> objects | The NIC information. Multiple NICs are supported. To let the system automatically add a NIC, configure only one NIC entry and set the ID to <b>autoCreate</b> .<br>Array length: 0 to 65,535                                                                                  |

| Parameter        | Mandatory | Type                                 | Description                                                                                                                                                                                                                                                                        |
|------------------|-----------|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| security_groups  | No        | Array of <b>SgObject</b> objects     | The security group information. Multiple security groups are supported. To let the system automatically create a security group, configure only one security group record and set the ID to <b>autoCreate</b> .<br>Array length: 0 to 65,535                                       |
| publicip         | No        | <b>PublicIp</b> object               | The public IP address information.                                                                                                                                                                                                                                                 |
| disk             | No        | Array of <b>TemplateDisk</b> objects | The disk information.<br>Array length: 0 to 65,535                                                                                                                                                                                                                                 |
| data_volume_type | No        | String                               | The data disk type.<br><b>SAS</b> : serial attached SCSI<br><b>SSD</b> : solid-state drive<br><b>SATA</b> : serial advanced technology attachment<br>The value can be: <ul style="list-style-type: none"> <li>• <b>SAS</b></li> <li>• <b>SSD</b></li> <li>• <b>SATA</b></li> </ul> |
| target_password  | No        | String                               | The server login password.<br>Minimum length: 0 characters<br>Maximum length: 1,024 characters                                                                                                                                                                                     |
| image_id         | No        | String                               | The ID of the image for server creation.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                                                                                                         |

**Table 5-212 VpcObject** field description

| Parameter | Mandatory | Type   | Description                                                                                                                                                          |
|-----------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id        | Yes       | String | The VPC ID. To let the system automatically create a VPC, set this parameter to <b>autoCreate</b> .<br>Minimum length: 1 character<br>Maximum length: 255 characters |
| name      | Yes       | String | The VPC name.<br>Minimum length: 1 character<br>Maximum length: 255 characters                                                                                       |
| cidr      | No        | String | The VPC CIDR block. The default value is <b>192.168.0.0/16</b> .<br>Minimum length: 1 character<br>Maximum length: 255 characters                                    |

**Table 5-213 Nics** field description

| Parameter | Mandatory | Type   | Description                                                                                                                                                                 |
|-----------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id        | Yes       | String | The subnet ID. To let the system automatically create a subnet, set this parameter to <b>autoCreate</b> .<br>Minimum length: 0 characters<br>Maximum length: 255 characters |
| name      | Yes       | String | The subnet name.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                          |
| cidr      | Yes       | String | The subnet gateway/mask.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                  |

| Parameter | Mandatory | Type   | Description                                                                                                                                                                      |
|-----------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ip        | No        | String | The server IP address. If this parameter is not specified, the system will automatically assign an IP address.<br>Minimum length: 0 characters<br>Maximum length: 255 characters |

**Table 5-214 SgObject** field description

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

**Table 5-215 PublicIp** field description

| Parameter | Mandatory | Type   | Description                                                                                                         |
|-----------|-----------|--------|---------------------------------------------------------------------------------------------------------------------|
| type      | Yes       | String | The EIP type. The default value is <b>5_bgp</b> .<br>Minimum length: 0 characters<br>Maximum length: 255 characters |

| Parameter            | Mandatory | Type    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------|-----------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| bandwidth_size       | Yes       | Integer | The bandwidth size in Mbit/s.<br>The minimum increment for bandwidth adjustment varies depending on the bandwidth range.<br>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.<br>Minimum value: <b>1</b><br>Maximum value: <b>2000</b> |
| bandwidth_share_type | No        | String  | The bandwidth type, shared or dedicated.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                                                                                                                                                                                                                                                                                                  |

**Table 5-216 TemplateDisk** field description

| Parameter | Mandatory | Type    | Description                                                                                                     |
|-----------|-----------|---------|-----------------------------------------------------------------------------------------------------------------|
| id        | No        | Long    | The disk ID.<br>Minimum value: <b>0</b><br>Maximum value: <b>9223372036854775807</b>                            |
| index     | Yes       | Integer | The disk serial number, starting from <b>0</b> .<br>Minimum value: <b>0</b><br>Maximum value: <b>2147483647</b> |
| name      | Yes       | String  | The disk name.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                |

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

## Response

**Status code: 200**

OK

None

## Example Request

This example modifies the template whose ID is **dfbdd142-985f-4a4f-93e1-c535b46bbaa1**.

PUT <https://{endpoint}/v3/vm/templates/dfbdd142-985f-4a4f-93e1-c535b46bbaa1>

```
{
  "template": {
    "name": "test1025",
    "is_template": false,
    "region": "region",
    "projectid": "00924d0ad2df4f21ac476dd9f3288xxxx",
    "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         | OK          |

## 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 5-217** Path parameter

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

## Request

**Table 5-218** 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 <b>X-Subject-Token</b> in the response header is the user token.</p> <p>Minimum length: 1 character<br/>Maximum length: 16,384 characters</p> |

## Response

**Status code: 200**

**Table 5-219** Response body parameters

| Parameter       | Type   | Description                                                                                              |
|-----------------|--------|----------------------------------------------------------------------------------------------------------|
| template_id     | String | <p>The template ID.</p> <p>Minimum length: 0 characters<br/>Maximum length: 255 characters</p>           |
| target_password | String | <p>The server login password.</p> <p>Minimum length: 0 characters<br/>Maximum length: 255 characters</p> |

## 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 was obtained.

```
{
  "template_id" : "d7fa81b9-c174-4c0a-a475-51a54c8af8a4",
  "target_password" : "*****"
}
```

## Status Codes

| Status Code | Description                              |
|-------------|------------------------------------------|
| 200         | The target server password was obtained. |

## Error Codes

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

# 5.7 Key Management

## 5.7.1 Obtaining an SSL Certificate and Private Key

### Function

For source servers running Windows, the Agent installed on them communicates with target servers through SSL sockets. This API is used to download the certificates and private keys in PEM format required by target servers.

### Calling Method

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

### URI

GET /v3/tasks/{task\_id}/certkey

**Table 5-220** Path parameter

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

**Table 5-221** Query parameter

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

## Request

**Table 5-222** Request header parameter

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

## Response

**Status code: 200**

**Table 5-223** Response body parameters

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

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

**Status code: 400**

**Table 5-224** Response body parameters

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

**Status code: 401**

**Table 5-225** Response body parameters

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

**Status code: 403**

**Table 5-226** Response body parameters

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

**Status code: 404**

**Table 5-227** Response body parameters

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

**Status code: 500**

**Table 5-228** Response body parameters

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

## Example Request

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

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

## Example Response

**Status code: 200**

OK

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

## Status Codes

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

### Function

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

### Calling Method

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

### URI

GET /v3/sha256/{key}

**Table 5-229** Path parameter

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

## Request

**Table 5-230** Request header parameter

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

## Response

**Status code: 200**

**Table 5-231** Response body parameter

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

## Example Request

This example calculates an SHA256 value.

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

## Example Response

Status code: 200

OK

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

## Status Codes

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

## 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 5-232** Request header parameter

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

**Table 5-233** Request body parameters

| Parameter           | Mandatory | Type    | Description                                                                                                   |
|---------------------|-----------|---------|---------------------------------------------------------------------------------------------------------------|
| name                | Yes       | String  | The migration project name.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                 |
| description         | No        | String  | The migration project description.<br>Minimum length: 0 characters<br>Maximum length: 255 characters          |
| isdefault           | No        | Boolean | Indicates whether the migration project is the default project.<br>Default value: <b>false</b>                |
| region              | Yes       | String  | The region name.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                            |
| start_target_server | No        | Boolean | Indicates whether the target server is started after the migration is complete.<br>Default value: <b>true</b> |

| Parameter           | Mandatory | Type    | Description                                                                                                                                                                                                                                                                                                              |
|---------------------|-----------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| speed_limit         | No        | Integer | The migration rate limit, in Mbit/s.<br>Minimum value: <b>0</b><br>Maximum value: <b>10000</b>                                                                                                                                                                                                                           |
| use_public_ip       | Yes       | Boolean | Indicates whether a public IP address is used for migration.<br>Default value: <b>true</b>                                                                                                                                                                                                                               |
| exist_server        | Yes       | Boolean | Specifies whether an existing server is as the target server.<br>Default value: <b>true</b>                                                                                                                                                                                                                              |
| type                | Yes       | String  | The migration project type.<br><b>MIGRATE_BLOCK</b> : block-level migration<br><b>MIGRATE_FILE</b> : file-level migration<br>Minimum length: 0 characters<br>Maximum length: 255 characters<br>The value can be: <ul style="list-style-type: none"> <li>• <b>MIGRATE_BLOCK</b></li> <li>• <b>MIGRATE_FILE</b></li> </ul> |
| enterprise_project  | No        | String  | The enterprise project name.<br>Default value: <b>default</b><br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                                                                                                                          |
| syncing             | Yes       | Boolean | Indicates whether continuous synchronization is performed after the first replication or synchronization is complete.<br>Default value: <b>false</b>                                                                                                                                                                     |
| start_network_check | No        | Boolean | Indicates whether the network performance is measured.                                                                                                                                                                                                                                                                   |

## Response

**Status code: 200**

**Table 5-234** Response body parameters

| Parameter | Type   | Description                                                                                                                                    |
|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------|
| id        | String | The ID of the new migration project returned after the creation is complete.<br>Minimum length: 0 characters<br>Maximum length: 255 characters |

## Example Request

This example creates a migration project.

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" : "6c6b6a50-6a6a-4d22-bd2c-78455ee5fxxx"
}
```

## Status Codes

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

## 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 5-235** Query parameters

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

## Request

**Table 5-236** Request header parameter

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

## Response

**Status code: 200**

**Table 5-237** Response body parameters

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

**Table 5-238** MigprojectsResponseBody field description

| Parameter | Type   | Description                                                                                   |
|-----------|--------|-----------------------------------------------------------------------------------------------|
| id        | String | The migration project ID.<br>Minimum length: 0 characters<br>Maximum length: 255 characters   |
| name      | String | The migration project name.<br>Minimum length: 0 characters<br>Maximum length: 255 characters |

| Parameter           | Type    | Description                                                                                                                                                                                                                                            |
|---------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| use_public_ip       | Boolean | Indicates whether a public IP address is used for migration.                                                                                                                                                                                           |
| isdefault           | Boolean | Indicates whether the migration project is the default project.                                                                                                                                                                                        |
| start_target_server | Boolean | Indicates whether the target server is started after the migration is complete.                                                                                                                                                                        |
| region              | String  | The region name.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                                                                                                     |
| speed_limit         | Integer | The migration rate limit configured in the project. The unit is Mbit/s.<br>Minimum value: <b>0</b><br>Maximum value: <b>10000</b>                                                                                                                      |
| exist_server        | Boolean | Indicates whether there are servers in the migration project.                                                                                                                                                                                          |
| description         | String  | The migration project description.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                                                                                   |
| type                | String  | The migration project type.<br><b>MIGRATE_BLOCK</b> : block-level migration<br><b>MIGRATE_FILE</b> : file-level migration<br>The value can be: <ul style="list-style-type: none"> <li>• <b>MIGRATE_BLOCK</b></li> <li>• <b>MIGRATE_FILE</b></li> </ul> |
| enterprise_project  | String  | The name of the enterprise project to which the migration project belongs.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                                           |
| syncing             | Boolean | Indicate whether continuous synchronization is performed after the full replication is complete.                                                                                                                                                       |
| start_network_check | Boolean | Indicates whether network performance measurement is enabled.                                                                                                                                                                                          |

## Example Request

This example obtains the list of migration projects.

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

## Example Response

**Status code: 200**

The list of migration projects was obtained.

```
{
  "count" : 6,
  "migprojects" : [ {
    "id" : "58005530-57a4-4589-85dd-69c7ca1bba17",
    "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" : "f7edd6c0-7faf-4e1a-8c0b-0bb4b53d162a",
    "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" : "8dd46a53-c7a6-42c4-98fb-9d140a1f3ac4",
    "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" : "ee35f0bf-6398-494f-a45c-7825e1499840",
    "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" : "9ed854a4-c294-449c-9169-2c70d611bfc9",
    "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" : "feba29f4-e9a2-4d22-b4bb-9e89a29600ab",
  "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         | The list of migration projects was obtained. |

## 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 5-239** Path parameter

| Parameter      | Mandatory | Type   | Description                                                                                 |
|----------------|-----------|--------|---------------------------------------------------------------------------------------------|
| mig_project_id | Yes       | String | The migration project ID.<br>Minimum length: 0 characters<br>Maximum length: 255 characters |

## Request

**Table 5-240** 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 <b>X-Subject-Token</b> in the response header is the user token.</p> <p>Minimum length: 1 character<br/>Maximum length: 16,384 characters</p> |

## Response

**Status code: 200**

**Table 5-241** Response body parameters

| Parameter   | Type                               | Description                                                                                                      |
|-------------|------------------------------------|------------------------------------------------------------------------------------------------------------------|
| id          | String                             | <p>The migration project ID.</p> <p>Minimum length: 0 characters<br/>Maximum length: 255 characters</p>          |
| name        | String                             | <p>The migration project name.</p> <p>Minimum length: 0 characters<br/>Maximum length: 255 characters</p>        |
| description | String                             | <p>The migration project description.</p> <p>Minimum length: 0 characters<br/>Maximum length: 255 characters</p> |
| isdefault   | Boolean                            | <p>Indicates whether the migration project is the default project.</p> <p>Default value: <b>false</b></p>        |
| template    | <b>TemplateResponseBody</b> object | The template information.                                                                                        |
| region      | String                             | <p>The region name.</p> <p>Minimum length: 0 characters<br/>Maximum length: 255 characters</p>                   |

| Parameter           | Type    | Description                                                                                                                                                                                                                                            |
|---------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| start_target_server | Boolean | Indicates whether the target server is started after the migration is complete.<br>Default value: <b>true</b>                                                                                                                                          |
| speed_limit         | Integer | The migration rate limit, in Mbit/s.<br>Minimum value: <b>0</b><br>Maximum value: <b>10000</b>                                                                                                                                                         |
| use_public_ip       | Boolean | Indicates whether a public IP address is used for migration.<br>Default value: <b>true</b>                                                                                                                                                             |
| exist_server        | Boolean | Specifies whether an existing server is as the target server.<br>Default value: <b>true</b>                                                                                                                                                            |
| type                | String  | The migration project type.<br><b>MIGRATE_BLOCK</b> : block-level migration<br><b>MIGRATE_FILE</b> : file-level migration<br>The value can be: <ul style="list-style-type: none"> <li>• <b>MIGRATE_BLOCK</b></li> <li>• <b>MIGRATE_FILE</b></li> </ul> |
| enterprise_project  | String  | The enterprise project name.<br>Default value: <b>default</b><br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                                                        |
| syncing             | Boolean | Indicates whether continuous synchronization is performed after the first replication or synchronization is complete.<br>Default value: <b>false</b>                                                                                                   |
| start_network_check | Boolean | Indicates whether network performance measurement is enabled.                                                                                                                                                                                          |

**Table 5-242 TemplateResponseBody** field description

| Parameter | Type   | Description                                                                        |
|-----------|--------|------------------------------------------------------------------------------------|
| id        | String | The template ID.<br>Minimum length: 0 characters<br>Maximum length: 255 characters |

| Parameter          | Type                    | Description                                                                                                                                                                                                                                                                        |
|--------------------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| name               | String                  | The template name.<br>Minimum length: 0 characters<br>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.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                    |
| region             | String                  | The region.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                                                                                                                                      |
| projectid          | String                  | The project ID.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                                                                                                                                  |
| target_server_name | String                  | The target server name.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                                                                                                                          |
| availability_zone  | String                  | The AZ.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                                                                                                                                          |
| volumetype         | String                  | The data disk type.<br><b>SAS</b> : serial attached SCSI<br><b>SSD</b> : solid-state drive<br><b>SATA</b> : serial advanced technology attachment<br>The value can be: <ul style="list-style-type: none"> <li>• <b>SAS</b></li> <li>• <b>SSD</b></li> <li>• <b>SATA</b></li> </ul> |
| flavor             | String                  | The server flavor.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                                                                                                                               |
| vpc                | <b>VpcObject</b> object | The VPC information.                                                                                                                                                                                                                                                               |

| Parameter        | Type                                 | Description                                                                                                                                                                                                                                                                        |
|------------------|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| nics             | Array of <b>Nics</b> objects         | The NIC information. Multiple NICs are supported. To let the system automatically add a NIC, configure only one NIC entry and set the ID to <b>autoCreate</b> .<br>Array length: 0 to 65,535                                                                                       |
| security_groups  | Array of <b>SgObject</b> objects     | The security group information. Multiple security groups are supported. To let the system automatically create a security group, configure only one security group entry and set the ID to <b>autoCreate</b> .<br>Array length: 0 to 65,535                                        |
| publicip         | <b>PublicIp</b> object               | The public IP address information.                                                                                                                                                                                                                                                 |
| disk             | Array of <b>TemplateDisk</b> objects | The disk information.<br>Array length: 0 to 65,535                                                                                                                                                                                                                                 |
| data_volume_type | String                               | The data disk type.<br><b>SAS</b> : serial attached SCSI<br><b>SSD</b> : solid-state drive<br><b>SATA</b> : serial advanced technology attachment<br>The value can be: <ul style="list-style-type: none"> <li>• <b>SAS</b></li> <li>• <b>SSD</b></li> <li>• <b>SATA</b></li> </ul> |
| target_password  | String                               | The target server password.<br>Minimum length: 0 characters<br>Maximum length: 1,024 characters                                                                                                                                                                                    |
| image_id         | String                               | The ID of the selected image.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                                                                                                                    |

**Table 5-243 VpcObject** field description

| Parameter | Type   | Description                                                                                                                                                          |
|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id        | String | The VPC ID. To let the system automatically create a VPC, set this parameter to <b>autoCreate</b> .<br>Minimum length: 1 character<br>Maximum length: 255 characters |
| name      | String | The VPC name.<br>Minimum length: 1 character<br>Maximum length: 255 characters                                                                                       |
| cidr      | String | The VPC CIDR block. The default value is <b>192.168.0.0/16</b> .<br>Minimum length: 1 character<br>Maximum length: 255 characters                                    |

**Table 5-244 Nics** field description

| Parameter | Type   | Description                                                                                                                                                                      |
|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id        | String | The subnet ID. To let the system automatically create a subnet, set this parameter to <b>autoCreate</b> .<br>Minimum length: 0 characters<br>Maximum length: 255 characters      |
| name      | String | The subnet name.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                               |
| cidr      | String | The subnet gateway/mask.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                       |
| ip        | String | The server IP address. If this parameter is not specified, the system will automatically assign an IP address.<br>Minimum length: 0 characters<br>Maximum length: 255 characters |

**Table 5-245 SgObject** field description

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

**Table 5-246 PublicIp** field description

| Parameter            | Type    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| type                 | String  | The EIP type. The default value is <b>5_bgp</b> .<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                                                                                                                                                                                                                                                                                         |
| bandwidth_size       | Integer | The bandwidth size in Mbit/s.<br>The minimum increment for bandwidth adjustment varies depending on the bandwidth range.<br>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.<br>Minimum value: <b>1</b><br>Maximum value: <b>2000</b> |
| bandwidth_share_type | String  | The bandwidth type, shared or dedicated.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                                                                                                                                                                                                                                                                                                  |

**Table 5-247 TemplateDisk** field description

| Parameter  | Type    | Description                                                                                                                           |
|------------|---------|---------------------------------------------------------------------------------------------------------------------------------------|
| id         | Long    | The disk ID.<br>Minimum value: <b>0</b><br>Maximum value: <b>9223372036854775807</b>                                                  |
| index      | Integer | The disk index, starting from <b>0</b> .<br>Minimum value: <b>0</b><br>Maximum value: <b>2147483647</b>                               |
| name       | String  | The disk name.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                      |
| disktype   | String  | The disk type. The value is the same as that of <b>volumetype</b> .<br>Minimum length: 0 characters<br>Maximum length: 255 characters |
| size       | Long    | The disk size in GB.<br>Minimum value: <b>0</b><br>Maximum value: <b>9223372036854775807</b>                                          |
| device_use | String  | The disk usage.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                     |

### 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": "137224b7-8d7c-4919-b33e-ed159778d7a7",
  "name": "456",
  "template": {
    "id": "6c6b6a50-6a6a-4d22-bd2c-78455ee5f6df",
    "name": "123456",
    "region": "region",
    "availability_zone": "availability_zone",
    "projectid": "06334e957c80d2642f39c0030856abdb",
```

```

"flavor" : "Si1.large.4",
"volumetype" : "",
"vpc" : {
  "id" : "b28f58da-9c30-4fc1-86a1-eef49056cab6",
  "name" : "vpc-b162zzzz(192.168.0.0/16)"
},
"nics" : [ {
  "id" : "3b9d5436-80cf-42a3-8f1a-61f125042eb8",
  "name" : "subnet-b18ezzz(192.168.0.0/24)",
  "cidr" : "192.168.0.0/24",
  "ip" : ""
} ],
"security_groups" : [ {
  "id" : "6ea2b372-772d-41ee-84a8-cb309480807d",
  "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         | OK          |

## 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 5-248** Path parameter

| Parameter      | Mandatory | Type   | Description                                                                                                      |
|----------------|-----------|--------|------------------------------------------------------------------------------------------------------------------|
| mig_project_id | Yes       | String | The ID of the migration project to be deleted.<br>Minimum length: 0 characters<br>Maximum length: 255 characters |

## Request

**Table 5-249** Request header parameter

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

## Response

**Status code: 200**

OK

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         | OK          |

## 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 5-250** Path parameter

| Parameter      | Mandatory | Type   | Description                                                                                 |
|----------------|-----------|--------|---------------------------------------------------------------------------------------------|
| mig_project_id | Yes       | String | The migration project ID.<br>Minimum length: 0 characters<br>Maximum length: 255 characters |

## Request

**Table 5-251** Request header parameter

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

**Table 5-252** Request body parameters

| Parameter   | Mandatory | Type                               | Description                                                                                          |
|-------------|-----------|------------------------------------|------------------------------------------------------------------------------------------------------|
| id          | No        | String                             | The migration project ID.<br>Minimum length: 0 characters<br>Maximum length: 255 characters          |
| name        | Yes       | String                             | The migration project name.<br>Minimum length: 0 characters<br>Maximum length: 255 characters        |
| description | No        | String                             | The migration project description.<br>Minimum length: 0 characters<br>Maximum length: 255 characters |
| isdefault   | No        | Boolean                            | Indicates whether the migration project is the default project.<br>Default value: <b>false</b>       |
| template    | No        | <b>TemplateResponseBody</b> object | The template information.                                                                            |

| Parameter           | Mandatory | Type    | Description                                                                                                                                                                                                                                            |
|---------------------|-----------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| region              | Yes       | String  | The region name.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                                                                                                     |
| start_target_server | No        | Boolean | Indicates whether the target server is started after the migration is complete.<br>Default value: <b>true</b>                                                                                                                                          |
| speed_limit         | No        | Integer | The migration rate limit, in Mbit/s.<br>Minimum value: <b>0</b><br>Maximum value: <b>10000</b>                                                                                                                                                         |
| use_public_ip       | Yes       | Boolean | Indicates whether a public IP address is used for migration.<br>Default value: <b>true</b>                                                                                                                                                             |
| exist_server        | Yes       | Boolean | Specifies whether an existing server is as the target server.<br>Default value: <b>true</b>                                                                                                                                                            |
| type                | Yes       | String  | The migration project type.<br><b>MIGRATE_BLOCK</b> : block-level migration<br><b>MIGRATE_FILE</b> : file-level migration<br>The value can be: <ul style="list-style-type: none"> <li>• <b>MIGRATE_BLOCK</b></li> <li>• <b>MIGRATE_FILE</b></li> </ul> |
| enterprise_project  | No        | String  | The enterprise project name.<br>Default value: <b>default</b><br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                                                        |
| syncing             | Yes       | Boolean | Indicates whether continuous synchronization is performed after the first replication or synchronization is complete.<br>Default value: <b>false</b>                                                                                                   |
| start_network_check | No        | Boolean | Indicates whether network performance measurement is enabled.                                                                                                                                                                                          |

**Table 5-253 TemplateResponseBody** field description

| Parameter          | Mandatory | Type   | Description                                                                                                                                                                                     |
|--------------------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id                 | No        | String | The template ID.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                                              |
| name               | Yes       | String | The template name.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                                            |
| is_template        | No        | String | Specifies whether the template is general. If the template is associated with a task, the template is not a general template.<br>Minimum length: 0 characters<br>Maximum length: 255 characters |
| region             | Yes       | String | The region.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                                                   |
| projectid          | Yes       | String | The project ID.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                                               |
| target_server_name | Yes       | String | The target server name.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                                       |
| availability_zone  | Yes       | String | The AZ.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                                                       |

| Parameter       | Mandatory | Type                                 | Description                                                                                                                                                                                                                                                                        |
|-----------------|-----------|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| volumetype      | Yes       | String                               | The data disk type.<br><b>SAS</b> : serial attached SCSI<br><b>SSD</b> : solid-state drive<br><b>SATA</b> : serial advanced technology attachment<br>The value can be: <ul style="list-style-type: none"> <li>• <b>SAS</b></li> <li>• <b>SSD</b></li> <li>• <b>SATA</b></li> </ul> |
| flavor          | Yes       | String                               | The server flavor.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                                                                                                                               |
| vpc             | Yes       | <b>VpcObject</b> object              | The VPC information.                                                                                                                                                                                                                                                               |
| nics            | Yes       | Array of <b>Nics</b> objects         | The NIC information. Multiple NICs are supported. To let the system automatically add a NIC, configure only one NIC entry and set the ID to <b>autoCreate</b> .<br>Array length: 0 to 65,535                                                                                       |
| security_groups | Yes       | Array of <b>SgObject</b> objects     | The security group information. Multiple security groups are supported. To let the system automatically create a security group, configure only one security group record and set the ID to <b>autoCreate</b> .<br>Array length: 0 to 65,535                                       |
| publicip        | Yes       | <b>PublicIp</b> object               | The public IP address information.                                                                                                                                                                                                                                                 |
| disk            | Yes       | Array of <b>TemplateDisk</b> objects | The disk information.<br>Array length: 0 to 65,535                                                                                                                                                                                                                                 |

| Parameter        | Mandatory | Type   | Description                                                                                                                                                                                                                                                                        |
|------------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| data_volume_type | Yes       | String | The data disk type.<br><b>SAS</b> : serial attached SCSI<br><b>SSD</b> : solid-state drive<br><b>SATA</b> : serial advanced technology attachment<br>The value can be: <ul style="list-style-type: none"> <li>• <b>SAS</b></li> <li>• <b>SSD</b></li> <li>• <b>SATA</b></li> </ul> |
| target_password  | Yes       | String | The target server password.<br>Minimum length: 0 characters<br>Maximum length: 1,024 characters                                                                                                                                                                                    |
| image_id         | No        | String | The ID of the selected image.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                                                                                                                    |

**Table 5-254** VpcObject

| Parameter | Mandatory | Type   | Description                                                                                                                                                          |
|-----------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id        | Yes       | String | The VPC ID. To let the system automatically create a VPC, set this parameter to <b>autoCreate</b> .<br>Minimum length: 1 character<br>Maximum length: 255 characters |
| name      | Yes       | String | The VPC name.<br>Minimum length: 1 character<br>Maximum length: 255 characters                                                                                       |
| cidr      | No        | String | The VPC CIDR block. The default value is <b>192.168.0.0/16</b> .<br>Minimum length: 1 character<br>Maximum length: 255 characters                                    |

**Table 5-255 Nics** field description

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

**Table 5-256 SgObject** field description

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

**Table 5-257 PublicIp** field description

| Parameter            | Mandatory | Type    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------|-----------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| type                 | Yes       | String  | The EIP type. The default value is <b>5_bgp</b> .<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                                                                                                                                                                                                                                                                                         |
| bandwidth_size       | Yes       | Integer | The bandwidth size in Mbit/s.<br>The minimum increment for bandwidth adjustment varies depending on the bandwidth range.<br>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.<br>Minimum value: <b>1</b><br>Maximum value: <b>2000</b> |
| bandwidth_share_type | No        | String  | The bandwidth type, shared or dedicated.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                                                                                                                                                                                                                                                                                                                  |

**Table 5-258 TemplateDisk** field description

| Parameter | Mandatory | Type    | Description                                                                                             |
|-----------|-----------|---------|---------------------------------------------------------------------------------------------------------|
| id        | No        | Long    | The disk ID.<br>Minimum value: <b>0</b><br>Maximum value: <b>9223372036854775807</b>                    |
| index     | Yes       | Integer | The disk index, starting from <b>0</b> .<br>Minimum value: <b>0</b><br>Maximum value: <b>2147483647</b> |

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

## Response

Status code: 200

Table 5-259 Response body parameter

| Parameter | Type   | Description                                 |
|-----------|--------|---------------------------------------------|
| -         | String | The default migration project was modified. |

## Example Request

This example modifies the migration project whose ID is **9879f7aa-3347-47fb-8f89-6070f9e0254e**.

```
PUT https://{endpoint}/v3/migprojects/9879f7aa-3347-47fb-8f89-6070f9e0254e
```

```
{
  "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

**Status code: 200**

The default migration project was modified.

```
{}
```

## Status Codes

| Status Code | Description                                 |
|-------------|---------------------------------------------|
| 200         | The default migration project was modified. |

## 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.<br>Minimum length: 0 characters<br>Maximum length: 255 characters |

## Request

**Table 5-261** Request header parameter

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

## Response

**Status code: 200**

The default migration project was changed.

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 was changed. |

## 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.<br>Minimum length: 0 characters<br>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 <b>X-Subject-Token</b> in the response header is the user token.<br>Minimum length: 1 character<br>Maximum length: 16,384 characters |

**Table 5-264** Request body parameters

| Parameter         | Mandatory | Type   | Description                                                                                    |
|-------------------|-----------|--------|------------------------------------------------------------------------------------------------|
| network_delay     | Yes       | Double | The network latency.<br>Minimum value: <b>0</b><br>Maximum value: <b>10000.0</b>               |
| network_jitter    | Yes       | Double | The network jitter.<br>Minimum value: <b>0</b><br>Maximum value: <b>10000</b>                  |
| migration_speed   | Yes       | Double | The bandwidth.<br>Minimum value: <b>0</b><br>Maximum value: <b>10000</b>                       |
| loss_percentage   | Yes       | Double | The packet loss rate.<br>Minimum value: <b>0</b><br>Maximum value: <b>100</b>                  |
| cpu_usage         | Yes       | Double | The CPU usage.<br>Minimum value: <b>0</b><br>Maximum value: <b>100</b>                         |
| mem_usage         | Yes       | Double | The memory usage.<br>Minimum value: <b>0</b><br>Maximum value: <b>100</b>                      |
| evaluation_result | Yes       | String | The network evaluation result.<br>Minimum length: 5 characters<br>Maximum length: 9 characters |

## Response

**Status code: 200**

**Table 5-265** Response body parameter

| Parameter | Type   | Description                                                                   |
|-----------|--------|-------------------------------------------------------------------------------|
| task_id   | String | The task ID.<br>Minimum length: 1 character<br>Maximum length: 255 characters |

**Status code: 400**

**Table 5-266** Response body parameters

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

**Status code: 404**

**Table 5-267** Response body parameters

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

**Status code: 500**

**Table 5-268** Response body parameters

| Parameter  | Type   | Description                                                                            |
|------------|--------|----------------------------------------------------------------------------------------|
| error_code | String | The error code.<br>Minimum length: 0 characters<br>Maximum length: 255 characters      |
| error_msg  | String | The error message.<br>Minimum length: 0 characters<br>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 were updated.

```
{
  "task_id": "137224b7-8d7c-4919-b33e-ed159778xxxx"
}
```

## Status Codes

| Status Code | Description                                      |
|-------------|--------------------------------------------------|
| 200         | The network measurement results were updated.    |
| 400         | The request parameters were missing.             |
| 404         | The task was not found.                          |
| 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 5-269** Path parameter

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

## Request

**Table 5-270** 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 <b>X-Subject-Token</b> in the response header is the user token.<br>Minimum length: 1 character<br>Maximum length: 16,384 characters |

**Table 5-271** Request body parameter

| Parameter      | Mandatory | Type                               | Description                                                      |
|----------------|-----------|------------------------------------|------------------------------------------------------------------|
| configurations | Yes       | Array of <b>ConfigBody</b> objects | The list of advanced migration options.<br>Array length: 0 to 10 |

**Table 5-272** ConfigBody field description

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                           |
|------------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| config_key | Yes       | String | The advanced migration option. The value can be <b>EXCLUDE_MIGRATE_PATH</b> , <b>SYNC_EXCLUDE_PATH</b> , or <b>ONLY_SYNC_PATH</b> .<br>Minimum length: 0 characters<br>Maximum length: 255 characters |

| Parameter     | Mandatory | Type   | Description                                                                                                                                                                      |
|---------------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| config_value  | Yes       | String | The value specified for the advanced migration option. It is stored in the database and parsed on the Agent.<br>Minimum length: 0 characters<br>Maximum length: 1,024 characters |
| config_status | No        | String | The reserved field that describes the configuration status.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                    |

## Response

### Status code: 200

Advanced migration options were configured successfully.

### Status code: 404

**Table 5-273** Response body parameters

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

### Status code: 500

**Table 5-274** Response body parameters

| Parameter  | Type   | Description                                                                       |
|------------|--------|-----------------------------------------------------------------------------------|
| error_code | String | The error code.<br>Minimum length: 0 characters<br>Maximum length: 255 characters |

| Parameter | Type   | Description                                                                            |
|-----------|--------|----------------------------------------------------------------------------------------|
| error_msg | String | The error message.<br>Minimum length: 0 characters<br>Maximum length: 1,024 characters |

## Example Request

This example uploads the **LINUX\_CPU\_LIMIT** configuration.

```
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 were configured successfully. |
| 404         | The task was not found.                                  |
| 500         | Advanced migration options failed to be configured.      |

## Error Codes

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

## 5.10.2 Querying the Advanced Migration Options Configured for 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 5-275** Path parameter

| Parameter | Mandatory | Type   | Description                                                                   |
|-----------|-----------|--------|-------------------------------------------------------------------------------|
| task_id   | Yes       | String | The task ID.<br>Minimum length: 1 character<br>Maximum length: 255 characters |

**Table 5-276** Query parameter

| Parameter  | Mandatory | Type   | Description                                   |
|------------|-----------|--------|-----------------------------------------------|
| config_key | No        | String | The advanced migration options to be queried. |

## Request

**Table 5-277** Request header parameter

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

## Response

Status code: 200

**Table 5-278** Response body parameters

| Parameter      | Type                                        | Description                                                                             |
|----------------|---------------------------------------------|-----------------------------------------------------------------------------------------|
| task_id        | String                                      | The task ID.<br>Minimum length: 0 characters<br>Maximum length: 100 characters          |
| migrate_type   | String                                      | The migration method.<br>Minimum length: 0 characters<br>Maximum length: 255 characters |
| configurations | Array of <a href="#">ConfigBody</a> objects | The settings of advanced migration options.                                             |

**Table 5-279** ConfigBody field description

| Parameter     | Type   | Description                                                                                                                                                                                           |
|---------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| config_key    | String | The advanced migration option. The value can be <b>EXCLUDE_MIGRATE_PATH</b> , <b>SYNC_EXCLUDE_PATH</b> , or <b>ONLY_SYNC_PATH</b> .<br>Minimum length: 0 characters<br>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.<br>Minimum length: 0 characters<br>Maximum length: 1,024 characters                      |
| config_status | String | The reserved field that describes the configuration status.<br>Minimum length: 0 characters<br>Maximum length: 255 characters                                                                         |

**Status code: 400**

**Table 5-280** Response body parameters

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

**Status code: 404**

**Table 5-281** Response body parameters

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

**Status code: 500**

**Table 5-282** Response body parameters

| Parameter  | Type   | Description                                                                            |
|------------|--------|----------------------------------------------------------------------------------------|
| error_code | String | The error code.<br>Minimum length: 0 characters<br>Maximum length: 255 characters      |
| error_msg  | String | The error message.<br>Minimum length: 0 characters<br>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                                                     |
| 400         | Bad Request                                                 |
| 404         | The task was not found.                                     |
| 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 5-283** 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 <b>X-Subject-Token</b> in the response header is the user token. |

## Response

**Status code: 200**

**Table 5-284** Response body parameter

| Parameter | Type   | Description        |
|-----------|--------|--------------------|
| -         | String | Request succeeded. |

## Example Request

This example signs the privacy agreement.

```
POST https://{endpoint}/v3/privacy-agreements
```

## Example Response

**Status code: 200**

Request succeeded.

```
""
```

## Status Codes

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

## 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 5-285** 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 <b>X-Subject-Token</b> in the response header is the user token. |

### Response

**Status code: 200**

**Table 5-286** 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                                                                   | Solution                                                                                                              |
|-------------|------------|---------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| 100         | SMS.3105   | fstab record "%s" is invalid                                        | The fstab record %s is invalid.                                               | Try the task again or contact technical support.                                                                      |
| 400         | SMS.0007   | Agent error.                                                        | The Agent program is abnormal.                                                | Contact technical support.                                                                                            |
| 400         | SMS.0201   | Network busy. Source server failed to connect to API Gateway.       | The source server's network is busy, and the API gateway cannot be connected. | 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/SK pair is correct.           | Check whether you are using the correct AK/SK pair for the target platform account and whether the account is frozen. |
| 400         | SMS.0203   | Connection from source server to API Gateway timed out.             | The connection from source server to the API gateway timed out.               | Check the network between the source server and the API gateway.                                                      |

| Status Code | Error Code | Error Message                                                                          | Description                                                                           | Solution                                                                                                 |
|-------------|------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| 400         | SMS.0204   | Insufficient permissions. Cause: {0[0]}. Obtain the required fine-grained permissions. | Insufficient permissions. Cause: {0[0]}. Obtain the required permissions.             | Obtain the required permissions by referring to "Configuring Permissions" in the official documentation. |
| 400         | SMS.0205   | AK/SK authentication failed. The time or time zone of the source server is incorrect.  | AK/SK authentication failed. The time or time zone of the source server is incorrect. | Change the system time or time zone on the 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 drivers are not available on the source server.                                   | Install the KVM drivers.                                                                                 |
| 400         | SMS.0208   | Failed to send your service statement confirmation to SMS                              | Your service statement confirmation failed to be sent to SMS.                         | Check the network between the source server and the API gateway.                                         |
| 400         | SMS.0210   | Failed to create file %s on target server                                              | File %s could not be created on the target server.                                    | Check the network and restart the migration task.                                                        |
| 400         | SMS.0211   | Failed to send certificate decryption key to target server                             | The certificate decryption key failed to be sent to the target server.                | Check the network, restart the target server, and restart the migration task.                            |

| Status Code | Error Code | Error Message                                                                                   | Description                                                                                                 | Solution                                                                                                                             |
|-------------|------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| 400         | SMS.0212   | Agent restarted. Delete the current target configuration and configure the target server again. | The Agent was restarted. Delete the current target server configuration and reconfigure the migration task. | Delete the target configuration and reconfigure the migration task.                                                                  |
| 400         | SMS.0301   | Failed to send the network request. Cause: %s                                                   | Failed to send the network request. Cause: %s                                                               | Modify the proxy information.                                                                                                        |
| 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 %s. Cause: %s                                                      | Unable to access domain name %s. Cause: %s                                                                  | Check whether the domain name is reachable. If it is not, rectify the fault by referring to "SMS.0303 Unable to access domain name". |
| 400         | SMS.0304   | Network request TLS/SSL authentication failed. Cause: %s                                        | TLS/SSL authentication failed during the network request. Cause: %s                                         | Rectify the fault by referring to "SMS.0304 SSL/TLS authentication failed."                                                          |
| 400         | SMS.0401   | No project ID found. Cause: %s                                                                  | Failed to obtain the project ID. Cause: %s                                                                  | Contact technical support.                                                                                                           |
| 400         | SMS.0406   | No image found. Cause: %s                                                                       | Failed to obtain the image. Cause %s.                                                                       | Contact technical support.                                                                                                           |

| Status Code | Error Code | Error Message                                                     | Description                                                       | Solution                                                                                                                                |
|-------------|------------|-------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| 400         | SMS.0407   | No target server information found. Cause: %s                     | Failed to obtain target server information. 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        | Locate the root cause based on the returned error details and rectify the fault by referring to "Error Codes" in the ECS documentation. |
| 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 | Locate the root cause based on the returned error details and rectify the fault by referring to "Error Codes" in the ECS documentation. |
| 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. Perform the migration again.                                                                                 |
| 400         | SMS.0412   | Target server %s does not exist.                                  | Target server %s does not exist.                                  | The target server has been deleted. Perform the migration 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    | Locate the root cause based on the returned error details and rectify the fault by referring to "Error Codes" in the OBS documentation. |

| Status Code | Error Code | Error Message                                                                           | Description                                                                             | Solution                                                                                                                                |
|-------------|------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| 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                            | Locate the root cause based on the returned error details and rectify the fault by referring to "Error Codes" in the ECS documentation. |
| 400         | SMS.0416   | No VPC found. Cause: %s                                                                 | No VPC found. Cause: %s                                                                 | Locate the root cause based on the returned error details and rectify the fault by referring to "Error Codes" in the VPC documentation. |
| 400         | SMS.0417   | No security group found. Cause: %s                                                      | No security group found. Cause: %s                                                      | Locate the root cause based on the returned error details and rectify the fault by referring to "Error Codes" in the VPC documentation. |
| 400         | SMS.0418   | No subnet found. Cause: %s                                                              | No subnet found. Cause: %s                                                              | Locate the root cause based on the returned error details and rectify the fault by referring to "Error Codes" in the VPC documentation. |

| Status Code | Error Code | Error Message                                                                                  | Description                                                                                    | Solution                                                                                                                                |
|-------------|------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| 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 | Locate the root cause based on the returned error details and rectify the fault by referring to "Error Codes" in the ECS documentation. |
| 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                              | Locate the root cause based on the returned error details and rectify the fault by referring to "Error Codes" in the EVS documentation. |
| 400         | SMS.0421   | Failed to obtain the domain ID. Cause: %s                                                      | Failed to obtain the domain ID. Cause: %s                                                      | Locate the root cause based on the returned error details and rectify the fault by referring to "Error Codes" in the IAM documentation. |
| 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.                              | Locate the root cause based on the returned error details and rectify the fault by referring to "Error Codes" in the VPC documentation. |
| 400         | SMS.0423   | The VPC with the specified ID is abnormal.                                                     | The VPC with the specified ID is abnormal.                                                     | Locate the root cause based on the returned error details and rectify the fault by referring to "Error Codes" in the VPC documentation. |

| Status Code | Error Code | Error Message                                                   | Description                                                     | Solution                                                                                                                                |
|-------------|------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| 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. | Locate the root cause based on the returned error details and rectify the fault by referring to "Error Codes" in the EVS documentation. |
| 400         | SMS.0425   | Failed to obtain the JSON configuration file.                   | Failed to obtain the JSON configuration file.                   | 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                    | Obtain the required permissions based on the returned information or contact technical support.                                         |
| 400         | SMS.0503   | Log upload failed. Cause: %s                                    | Log upload failed. Cause: %s                                    | Locate the root cause based on the returned error details and rectify the fault by referring to "Error Codes" in the OBS documentation. |
| 400         | SMS.0504   | Failed to obtain task details. Cause: %s                        | Failed to obtain task details. Cause: %s                        | Start the task again or contact technical support.                                                                                      |

| Status Code | Error Code | Error Message                                                                        | Description                                                                          | Solution                                   |
|-------------|------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------|
| 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.                          | Create a migration task again.             |
| 400         | SMS.0506   | Failed to obtain template details.<br>Template ID: %s                                | Failed to obtain template details.<br>Template ID: %s                                | Contact technical support.                 |
| 400         | SMS.0507   | Source server details deleted.<br>Register it with SMS again.                        | Source server details deleted.<br>Register it with SMS again.                        | Register the source server with SMS again. |
| 400         | SMS.0508   | Failed to obtain commands from the source server.<br>Cause %s                        | Failed to obtain commands from source server %s.<br>Cause: %s                        | Restart the task.                          |
| 400         | SMS.0509   | The application failed to start because its side-by-side configuration is incorrect. | The application failed to start because its side-by-side configuration is incorrect. | Contact technical support.                 |
| 400         | SMS.0510   | Failed to update the replication status to %s.                                       | Failed to update the replication status to %s.                                       | Restart the task.                          |
| 400         | SMS.0511   | Failed to obtain the private key.<br>Cause: %s                                       | Failed to obtain the private key.<br>Cause: %s                                       | Contact technical support.                 |
| 400         | SMS.0512   | Failed to update task details.                                                       | Failed to update task details.                                                       | Restart the task.                          |
| 400         | SMS.0513   | Failed to add the subtask.                                                           | Failed to add the subtask.                                                           | Contact technical support.                 |

| Status Code | Error Code | Error Message                                                                                                    | Description                                                                                                      | Solution                                                                                 |
|-------------|------------|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| 400         | SMS.0514   | Updating source server information failed. Cause: {0[0]}                                                         | Failed to update source server information. Cause: {0[0]}                                                        | Restart the task.                                                                        |
| 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 the 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 the target configuration, restart the Agent, and expand the target partition.     |
| 400         | SMS.0520   | Failed to obtain the target server password. Cause: %s                                                           | Failed to obtain the target server password. Cause: %s                                                           | Contact technical support.                                                               |
| 400         | SMS.0521   | Failed to obtain the certificate password. Cause: %s                                                             | Failed to obtain the certificate password. Cause: %s                                                             | Check the network connection, restart the target server, and restart the migration task. |

| Status Code | Error Code | Error Message                                    | Description                                      | Solution                                                                                                                                |
|-------------|------------|--------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| 400         | SMS.0522   | The parameter contains invalid characters: %s    | The parameter contains invalid characters: %s    | Check whether the JSON body of the API call is correct.                                                                                 |
| 400         | SMS.0601   | Target server creation failed. Cause: %s         | Target server creation failed. Cause: %s         | Locate the root cause based on the returned error details and rectify the fault by referring to "Error Codes" in the ECS documentation. |
| 400         | SMS.0602   | VPC creation failed. Cause: %s                   | VPC creation failed. Cause: %s                   | Locate the root cause based on the returned error details and rectify the fault by referring to "Error Codes" in the VPC documentation. |
| 400         | SMS.0603   | Security group creation failed. Cause: %s        | Security group creation failed. Cause: %s        | Contact VPC technical support.                                                                                                          |
| 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                | Locate the root cause based on the returned error details and rectify the fault by referring to "Error Codes" in the VPC documentation. |

| Status Code | Error Code | Error Message                                                                        | Description                                                                          | Solution                                                                                                                                |
|-------------|------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| 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.                 | Check the destination region information.                                                                                               |
| 400         | SMS.0608   | Volume creation failed. Cause: %s                                                    | Volume creation failed. Cause: %s                                                    | Locate the root cause based on the returned error details and rectify the fault by referring to "Error Codes" in the EVS documentation. |
| 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.                                                                             |
| 400         | SMS.0807   | Network error between source and target servers.                                     | Network error between source and target servers.                                     | Check whether the network is functional.                                                                                                |

| Status Code | Error Code | Error Message                                                         | Description                                             | Solution                                                                                                                                                                         |
|-------------|------------|-----------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 400         | SMS.0808   | Failed to initialize sync task. Target disks or partitions not found. | Failed to initialize sync task. Target disks not found. | Contact technical support.                                                                                                                                                       |
| 400         | SMS.1101   | Failed to start target server %s.                                     | Failed to start target server %s.                       | Try again later. Check whether your account has the permission to stop the ECS.                                                                                                  |
| 400         | SMS.1102   | Failed to stop target server %s.                                      | Failed to stop target server %s.                        | Try again later. Check whether your account has the permission to stop the ECS.                                                                                                  |
| 400         | SMS.1103   | Failed to attach disk %s. Cause: %s                                   | Failed to attach disk %s. Cause: %s                     | Ensure that the network is connected and try again. If the fault persists, rectify the fault by referring to "Why Can't I Attach My Disk to a Server?" in the EVS documentation. |
| 400         | SMS.1104   | Failed to detach disk %s. Cause: %s                                   | Failed to detach disk %s. Cause: %s                     | Rectify the fault by referring to "SMS.1104 Failed to Detach Disk xxx" in the documentation.                                                                                     |
| 400         | SMS.1105   | Disk creation failed. Cause: %s                                       | Disk creation failed. Cause: %s                         | Rectify the fault by referring to "SMS.1105 Disk Creation Failed" in the documentation.                                                                                          |
| 400         | SMS.1106   | Failed to delete disk %s. Cause: %s                                   | Failed to delete disk %s. Cause: %s                     | Rectify the fault by referring to "SMS.1106 Failed to Delete Disk ***" in the documentation.                                                                                     |

| Status Code | Error Code | Error Message                                                                                 | Description                                                                                   | Solution                                                                                                                                                                                                       |
|-------------|------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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               | Ensure that the source server can access the target server through SSH and check whether the agent image version is correct.                                                                                   |
| 400         | SMS.1108   | Failed to detach disk %s.                                                                     | Failed to detach disk %s.                                                                     | Refer to "SMS.1104 Failed to Detach disk xx" in the SMS documentation.                                                                                                                                         |
| 400         | SMS.1109   | An exception occurred when the private key and certificate were uploaded to target server %s. | An exception occurred when the private key and certificate were uploaded to target server %s. | Contact technical support.                                                                                                                                                                                     |
| 400         | SMS.1110   | Failed to attach disk %s.                                                                     | Failed to attach disk %s.                                                                     | Contact technical support. Ensure stable network connectivity and retry the task. If the fault persists, rectify the fault by referring to "Why Can't I Attach My Disk to a Server?" in the EVS documentation. |
| 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.                                                                                                                                                                                     |

| Status Code | Error Code | Error Message                                                                                | Description                                                                                        | Solution                                                                                                                        |
|-------------|------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| 400         | SMS.1113   | Failed to reconfigure partition details on the target server.                                | Failed to reconfigure partition details on the target server.                                      | Rectify the fault be referring to "SMS.1113 Failed to Reconfigure Partition Details on the Target Server" in the documentation. |
| 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                                                          | Wait and try again. If the issue persists, check whether the agent image version is correct.                                    |
| 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.                                          | Wait and try again. If the issue persists, check whether the agent image version is correct.                                    |
| 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. | Failed to run the command on Windows. The cause is that the command or command parameter is empty. | Wait and try again. If the issue persists, check whether the agent image version is correct.                                    |
| 400         | SMS.1201   | %s not installed.                                                                            | The specified service %s is not installed.                                                         | Contact technical support.                                                                                                      |

| Status Code | Error Code | Error Message                                                         | Description                                                                         | Solution                                                                                                  |
|-------------|------------|-----------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| 400         | SMS.1202   | Agent image ID is empty. Create agent image and reconfigure the task. | The agent image ID is empty. Create an agent image and perform the migration again. | Create an agent image according to the documentation and perform the migration again.                     |
| 400         | SMS.1203   | Insufficient memory on the source server.                             | The source server memory is insufficient.                                           | Close unneeded programs on the 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                             | Rectify the fault by referring to "SMS.1204 Failed to Create File on Source Server" in the documentation. |
| 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.                | Rectify the fault by referring to "SMS.1205 Failed to Load WMI" in the documentation.                     |
| 400         | SMS.1301   | Failed to write partition information to the configuration file.      | Failed to write partition information to the configuration file.                    | Ensure that the network connection is normal and try again.                                               |
| 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                                               | Wait and try again. If the issue persists, check whether the agent image version is correct.              |

| Status Code | Error Code | Error Message                                                                                         | Description                                                                                                                 | Solution                                                                                     |
|-------------|------------|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| 400         | SMS.1313   | Failed to create physical volume %s.<br>Cause: %s                                                     | Failed to create physical volume %s.<br>Cause: %s                                                                           | Wait and try again. If the issue persists, check whether the agent image version is correct. |
| 400         | SMS.1314   | Formatting failed.<br>Partition: %s.<br>Cause: %s                                                     | Formatting failed.<br>Partition: %s.<br>Cause: %s                                                                           | Wait and try again. If the issue persists, check whether the agent image version is correct. |
| 400         | SMS.1315   | Insufficient free space on target partition %s.                                                       | Insufficient free space on target partition %s.                                                                             | Expand the partition.                                                                        |
| 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. | The SSH client is not installed. Install the <b>openssh-clients</b> package and check the installation with <b>ssh -V</b> . | Rectify the fault by referring to "SMS.1402 SSH client not installed" in the documentation.  |
| 400         | SMS.1403   | No grub file found. Find it under /boot.                                                              | The grub file could not be found. Search for the file in the <b>/boot</b> directory.                                        | Contact technical support.                                                                   |
| 400         | SMS.1404   | Disk %s is abnormal. Expected status: %s                                                              | The disk %s status is abnormal. The current status is %s, and the expected status is %s.                                    | Check the target disk status. If the status is expected, try the task again.                 |

| Status Code | Error Code | Error Message                                                | Description                                                  | Solution                                                                                                                                                                                                                                                                                                                                                                       |
|-------------|------------|--------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 400         | SMS.1405   | Failed to obtain information about disk %s. Cause: %s        | Failed to obtain information about disk %s. Cause: %s        | The network fluctuates or the ECS API responds slowly. Ensure stable network connectivity, wait for a while, and try the task again. Check whether the target disk exists and whether the target server information in the task is correct. If the disk does not exist or the information is incorrect, correctly configure the target server and perform the migration again. |
| 400         | SMS.1406   | Failed to obtain the EIP. Cause: %s                          | Failed to obtain the EIP. Cause: %s                          | Check whether the EIP status is normal and whether the EIP has been modified or deleted.                                                                                                                                                                                                                                                                                       |
| 400         | SMS.1407   | Failed to obtain the target server specifications. Cause: %s | Failed to obtain the target server specifications. Cause: %s | Contact technical support.                                                                                                                                                                                                                                                                                                                                                     |
| 400         | SMS.1408   | Snapshot creation failed. Disk: %s. Cause: %s                | Failed to create a snapshot for disk %s. Cause %s.           | Rectify the issue by referring to "SMS.1105 Disk creation failed" in the documentation.                                                                                                                                                                                                                                                                                        |

| Status Code | Error Code | Error Message                           | Description                             | Solution                                                                                                                                                                                                                |
|-------------|------------|-----------------------------------------|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 400         | SMS.1409   | Failed to delete snapshot %s. Cause: %s | Failed to delete snapshot %s. Cause: %s | Ensure stable network connectivity and retry the task later. If the error persists, check whether the disk snapshot can be deleted based on the failure cause and whether the disk snapshot exists or has been deleted. |
| 400         | SMS.1410   | Snapshot %s does not exist.             | Snapshot %s does not exist.             | Ensure stable network connectivity and retry the task later. If the error persists, check whether the snapshot has been deleted.                                                                                        |
| 400         | SMS.1411   | Snapshot %s is in the %s state.         | Snapshot %s is in the %s state.         | Ensure stable network connectivity and retry the task later. If the error persists, check whether the snapshot status is normal.                                                                                        |
| 400         | SMS.1412   | Snapshot %s rollback failed. Cause: %s  | Snapshot %s rollback failed. Cause: %s  | Ensure stable network connectivity and retry the task later. If the error persists, rectify the fault based on the returned error information or contact technical support.                                             |

| Status Code | Error Code | Error Message                                                        | Description                                                          | Solution                                                                                                                                                                    |
|-------------|------------|----------------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 400         | SMS.1413   | Failed to obtain the status of snapshot %s.<br>Cause: %s             | Failed to obtain the status of snapshot %s.<br>Cause: %s             | Ensure stable network connectivity and retry the task later. If the error persists, rectify the fault based on the returned error information or contact technical support. |
| 400         | SMS.1414   | The migration module stopped abnormally and cannot synchronize data. | The migration module stopped abnormally and cannot synchronize data. | Rectify the fault by referring to "SMS.1414 The migration module stops abnormally and cannot synchronize data" in the documentation.                                        |
| 400         | SMS.1415   | Failed to load the I/O monitoring module.                            | Failed to load the I/O monitoring module.                            | Rectify the issues by referring to "SMS.1902 Failed to Start the I/O Monitoring Module" in the documentation.                                                               |
| 400         | SMS.1416   | Failed to create tag for server %s.<br>Cause: %s                     | Failed to tag server %s.<br>Cause: %s                                | Ensure stable network connectivity and retry the task later. If the error persists, rectify the fault based on the returned error information or contact technical support. |

| Status Code | Error Code | Error Message                                                                    | Description                                                                      | Solution                                                                                                                                                                    |
|-------------|------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 400         | SMS.1417   | Operation %s failed on server. Cause: %s                                         | Failed to perform operation %s on the server. Cause: %s                          | Ensure stable network connectivity and retry the task later. If the error persists, rectify the fault based on the returned error information or contact technical support. |
| 400         | SMS.1423   | Failed to obtain details about DNS server. Cause: %s                             | Failed to obtain the DNS server information. Cause: %s                           | Check the DNS configuration on the source server.                                                                                                                           |
| 400         | SMS.1501   | OS version not supported.                                                        | The OS is not supported.                                                         | Check whether the source OS is supported based on the compatibility list.                                                                                                   |
| 400         | SMS.1502   | Target server %s is abnormal. Expected status: %s                                | The VM %s status is abnormal. The expected status is %s.                         | Check the status of the target server. If the status is expected, wait and try again.                                                                                       |
| 400         | SMS.1503   | Disk %s is not the system boot disk.                                             | Disk %s is not the system boot disk.                                             | SMS considers the first disk as the system disk by default. Adjust the disk attachment order.                                                                               |
| 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. | Ensure that the disks on the source server match those on the target server.                                                                                                |
| 400         | SMS.1505   | No boot partition found.                                                         | The boot partition was not found.                                                | Check whether the system disk on the source server is correctly attached.                                                                                                   |

| Status Code | Error Code | Error Message                                                                           | Description                                                                                                  | Solution                                                                                |
|-------------|------------|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 400         | SMS.1506   | No boot disk found.                                                                     | The boot disk was not found.                                                                                 | Check whether the disks on the source server are correctly attached.                    |
| 400         | SMS.1507   | No system partition found.                                                              | The system partition was not found.                                                                          | Check whether the system partition on the source server is correctly mounted.           |
| 400         | SMS.1508   | Mount point, partition, or disk configured in disk.cfg not found.                       | The mount point, partition, or disk information written in the custom disk configuration file was not found. | Check the disk configuration file.                                                      |
| 400         | SMS.1509   | Invalid disk.cfg file.                                                                  | The custom disk configuration file is not feasible.                                                          | Check the disk configuration file.                                                      |
| 400         | SMS.1510   | Configure advanced option %s failed. Cause: %s.                                         | Failed to configure advanced option %s. Cause: %s                                                            | Check and modify the settings.                                                          |
| 400         | SMS.1511   | Failed to check the consistency. Cause: %s                                              | Failed to verify data consistency. Cause: %s                                                                 | Reconfigure and execute the task, or contact technical support.                         |
| 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.                      | The installed Agent cannot migrate the server to this region. Install the latest Agent. |

| Status Code | Error Code | Error Message                                                                                                               | Description                                                                                                                 | Solution                                                                                                 |
|-------------|------------|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| 400         | SMS.1702   | An error occurred when converting the string into the JSON format.                                                          | An error occurred during the conversion of the string to JSON.                                                              | Reconfigure and execute the task, or contact technical support.                                          |
| 400         | SMS.1801   | Migration or synchronization task failed.                                                                                   | The migration or synchronization failed.                                                                                    | Contact technical support.                                                                               |
| 400         | SMS.1802   | Migration or synchronization task paused.                                                                                   | The migration or synchronization task is suspended.                                                                         | 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. | Contact technical support.                                                                               |
| 400         | SMS.1901   | Agent could not read disk information.                                                                                      | The Agent could not read disk information.                                                                                  | Rectify the issue by referring to "SMS.1901 Agent could not read disk information" in the documentation. |

| Status Code | Error Code | Error Message                                       | Description                                         | Solution                                                                                                              |
|-------------|------------|-----------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| 400         | SMS.1902   | Failed to start the I/O monitoring module.          | Failed to start the I/O monitoring module.          | Rectify the issue by referring to "SMS.1902 Failed to start the I/O monitoring module" in the documentation.          |
| 400         | SMS.1903   | No valid block data found.                          | Failed to query valid block data.                   | Try the task again or contact technical support.                                                                      |
| 400         | SMS.1904   | Failed to create a snapshot for the Windows server. | Failed to create a snapshot for the Windows server. | Rectify the issue by referring to "SMS.1904 Failed to create a snapshot for the Windows server" in the documentation. |
| 400         | SMS.1905   | Failed to read the disk information.                | Failed to read the volume information.              | Try the task again or contact technical support.                                                                      |
| 400         | SMS.1907   | Failed to send the migration command.               | The Agent failed to send the command.               | Try the task again or contact technical support.                                                                      |
| 400         | SMS.1908   | Data transmission failed.                           | The Agent failed to transmit data.                  | Try the task again or contact technical support.                                                                      |
| 400         | SMS.1909   | Data compression failed.                            | Data compression failed.                            | Try the task again or contact technical support.                                                                      |
| 400         | SMS.1910   | Failed to obtain the I/O monitoring data.           | Failed to obtain the I/O monitoring data.           | Try the task again or contact technical support.                                                                      |
| 400         | SMS.1911   | Boot sector read error.                             | Failed to read the boot sector.                     | Try the task again or contact technical support.                                                                      |
| 400         | SMS.2003   | Volume reconfiguration failed.                      | The volume reconfiguration failed.                  | Try the task again or contact technical support.                                                                      |

| Status Code | Error Code | Error Message                                                               | Description                                                                 | Solution                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------|------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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.               | Try the task again or 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.                         | <p>1. Ensure that the disks on the target server are at least as large as those on the source server. If you expand the source server's disks or add new ones after the Agent is registered, register the Agent again and create a new migration task.</p> <p>2. Out-of-bounds write may occur on the target server. Ensure that each disk on the target server is 1 GB larger than the paired disk on the source server.</p> |
| 400         | SMS.2009   | Data decompression failed.                                                  | Data decompression failed.                                                  | Try the task again or contact technical support.                                                                                                                                                                                                                                                                                                                                                                              |
| 400         | SMS.2011   | Failed to receive data.                                                     | Failed to receive data.                                                     | Try the task again or 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. | Try the task again or contact technical support.                                                                                                                                                                                                                                                                                                                                                                              |
| 400         | SMS.2013   | Failed to open the disk.                                                    | Failed to open the disk.                                                    | Try the task again or contact technical support.                                                                                                                                                                                                                                                                                                                                                                              |

| Status Code | Error Code | Error Message                                | Description                                              | Solution                                         |
|-------------|------------|----------------------------------------------|----------------------------------------------------------|--------------------------------------------------|
| 400         | SMS.2014   | Failed to hide the partition information.    | Failed to hide the partition information.                | Try the task again or contact technical support. |
| 400         | SMS.2015   | Failed to restore the partition information. | Failed to restore the partition information.             | Try the task again or contact technical support. |
| 400         | SMS.2016   | Drive letter restoration failed.             | Drive letter restoration failed.                         | Try the task again or contact technical support. |
| 400         | SMS.2017   | Failed to traverse all volumes.              | Failed to traverse all volumes.                          | Try the task again or contact technical support. |
| 400         | SMS.2018   | Error in reading the volume boot sector.     | Failed to read the boot sector of the volume.            | Try the task again or contact technical support. |
| 400         | SMS.2101   | Registry modification failed.                | Registry modification failed on Windows.                 | Try the task again or contact technical support. |
| 400         | SMS.2102   | Failed to modify the device information.     | Failed to modify the device information on Windows.      | Try the task again or contact technical support. |
| 400         | SMS.2103   | Failed to set active partitions.             | Failed to set active partitions on Windows.              | Try the task again or contact technical support. |
| 400         | SMS.2104   | Failed to modify BCD configuration.          | Failed to modify BCD configuration on Windows.           | Try the task again or contact technical support. |
| 400         | SMS.2105   | Failed to modify boot configuration file.    | Failed to modify the boot configuration file on Windows. | Try the task again or contact technical support. |

| Status Code | Error Code | Error Message                            | Description                                                                                | Solution                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------|------------|------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 400         | SMS.2201   | Failed to clear disk information.        | Failed to clear disk information during the partitioning and formatting on Windows.        | Log in to the target server, run the <b>diskpart clean</b> command, and analyze the error cause based on the command output.                                                                                                                                                                                                                                                                                                         |
| 400         | SMS.2202   | Failed to convert the format of disk %s. | Failed to convert the format of disk %s during the partitioning and formatting on Windows. | <ol style="list-style-type: none"> <li>1. Go to the <b>config</b> directory in the Agent installation directory on drive C.</li> <li>2. Change the value of <b>target.disk.pci.mapping</b> in the <b>g-property.cfg</b> file in the directory to <b>False</b>.</li> <li>3. Delete the <b>disk_mapping.record</b> file from the directory.</li> <li>4. Delete the target configuration and reconfigure the migration task.</li> </ol> |

| Status Code | Error Code | Error Message                                                                                                  | Description                                                                                                    | Solution                                                                                                                                                                                                                                                                                                              |
|-------------|------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 400         | SMS.2203   | Failed to create partition %s.                                                                                 | Failed to create partition %s during the partitioning and formatting on Windows.                               | You can try the following solutions:<br><ol style="list-style-type: none"> <li>1. Restart the target server and retry the migration.</li> <li>2. Re-attach the faulty disk, log in to the target server, manually delete the faulty partition on the <b>Disk Management</b> page, and retry the migration.</li> </ol> |
| 400         | SMS.2204   | Failed to format partition %s.                                                                                 | Failed to format partition %s on Windows.                                                                      | Try the task again or contact technical support.                                                                                                                                                                                                                                                                      |
| 400         | SMS.2205   | Failed to update the partition information.                                                                    | Failed to update the partition information on Windows.                                                         | Try the task again or contact technical support.                                                                                                                                                                                                                                                                      |
| 400         | SMS.2301   | Failed to start ntcldst.                                                                                       | Failed to start ntcldst.                                                                                       | Try the task again or 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. | Rectify the issue by referring to "SMS.2802 Failed to Connect to the Target Server. Check Whether Its IP Address Is Reachable and Port 8899 Is Enabled" in the documentation.                                                                                                                                         |

| Status Code | Error Code | Error Message                                                           | Description                                                             | Solution                                                                                                                                                                                               |
|-------------|------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 400         | SMS.3101   | Failed to modify the configuration file of the target server. Cause: %s | Failed to modify the configuration file on the target server. Cause: %s | Create an ECS that uses the same or similar OS as the source server, overwrite the <b>/etc/default/grub</b> file on the target server with the content of the file on the ECS, and try the task again. |
| 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        | Try the task again or contact technical support.                                                                                                                                                       |
| 400         | SMS.3103   | Failed to execute bootloader on the target server. Cause: %s            | Failed to rebuild the bootloader on the target server. Cause: %s        | The <b>/usr/lib/grub/i386-pc</b> directory does not exist on the source server. Contact technical support.                                                                                             |
| 400         | SMS.3104   | Failed to read <b>/etc/fstab</b> on the source server. Cause: %s        | Failed to read <b>/etc/fstab</b> on the source server. Cause: %s        | Failed to read <b>/etc/fstab</b> on the source server. Restore the <b>/etc/fstab</b> file on the source server and try again.                                                                          |
| 400         | SMS.3202   | Failed to create volume group %s. Cause: %s                             | Failed to create volume group %s. Cause: %s                             | Try the task again or contact technical support.                                                                                                                                                       |
| 400         | SMS.3203   | Failed to create logical volume %s. Cause: %s                           | Failed to create logical volume %s. Cause: %s                           | Try the task again or contact technical support.                                                                                                                                                       |
| 400         | SMS.3204   | Failed to create swap partition %s. Cause: %s                           | Failed to create swap partition %s. Cause: %s                           | Try the task again or contact technical support.                                                                                                                                                       |

| Status Code | Error Code | Error Message                                                                       | Description                                                                         | Solution                                                                                                                                                                                                                         |
|-------------|------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 400         | SMS.3205   | Failed to mount partition %s to directory %s. Cause: %s                             | Failed to mount partition %s to directory %s. Cause: %s                             | Rectify the issue by referring to "SMS.3205 Failed to Mount Partition XXX to Directory XXX" in the documentation.                                                                                                                |
| 400         | SMS.3206   | Failed to obtain the UUID of the partition on the target server. Cause: %s          | Failed to query the UUID of the partition on the target server. Cause: %s           | <ol style="list-style-type: none"> <li>1. Check whether the disk is correctly mounted.</li> <li>2. Check whether the file system is supported for migration.</li> <li>3. Retry the task or contact technical support.</li> </ol> |
| 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                            | Check whether the disk space is insufficient or 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                             | Check whether the disk space is insufficient or 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 | Check whether the security group or firewall of the target server has restrictions.                                                                                                                                              |
| 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]}                          | Check whether the security group or firewall of the remote server has restrictions.                                                                                                                                              |

| Status Code | Error Code | Error Message                                                                                                                  | Description                                                                                                                  | Solution                                                                                                                                                                                                    |
|-------------|------------|--------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                                                           | Failed to download RSA public and private keys. HTTPS Code: %s                                                               | Ensure stable network connectivity and retry the task, or contact technical support.                                                                                                                        |
| 400         | SMS.3402   | Download of RSA public and private keys failed.                                                                                | Failed to download the RSA public and private keys.                                                                          | Ensure stable network connectivity and retry the task, or contact technical support.                                                                                                                        |
| 400         | SMS.3802   | Failed to establish an SSH connection with the target server.                                                                  | Failed to establish an SSH connection with the target server.                                                                | Rectify the issue by referring to "SMS.3802 Failed to establish an SSH connection with the target server" in the documentation.                                                                             |
| 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 due to an error occurred during the public key verification on the target server. | Rectify the issue by referring to "SMS.3803 The connection to the port 22 of target server failed, because an error occurred during the public key verification on the target server" in the documentation. |

| Status Code | Error Code | Error Message                                                                    | Description                                                                       | Solution                                                                                                                                                       |
|-------------|------------|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 credentials. | Rectify the issue by referring to "SMS.3804 The connection to the port 22 of target server failed due to invalid connection credentials" in the documentation. |
| 400         | SMS.3805   | The connection to the target server timed out.                                   | The connection to the target server timed out.                                    | Rectify the issue by referring to "SMS.3805 The connection to the port 22 of target server timed out" in the documentation.                                    |
| 400         | SMS.3806   | The connection to the target server was rejected.                                | The connection to the target server was rejected.                                 | Rectify the issue by referring to "SMS.3806 The connection to the port 22 of target server was rejected" in the documentation.                                 |
| 400         | SMS.3807   | Failed to decompress %s.                                                         | Failed to decompress file %s.                                                     | Check whether the disk space is insufficient or contact technical support.                                                                                     |
| 400         | SMS.3808   | Failed to ping the target server. Please check whether the ICMP port is enabled. | Failed to ping the target server. Check whether the ICMP port is enabled.         | Ensure stable network connectivity and retry the task, or contact technical support.                                                                           |
| 400         | SMS.3809   | Failed to replace the RSA certificate on the target server.                      | Failed to replace the RSA certificate on the target server.                       | Ensure stable network connectivity and retry the task, or contact technical support.                                                                           |

| Status Code | Error Code | Error Message                                                                       | Description                                                                         | Solution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------|------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 400         | SMS.5101   | Agent installation failed.                                                          | Agent installation failed.                                                          | <p>1. The Agent for Windows could not be launched by double-clicking. Right-click <b>SMS-Agent-py*.exe</b> and view the properties. Select <b>Unlock</b>.</p> <p>2. The Agent installation failed because files failed to be written. Ensure that there is at least 500 MB of free space on drive C for installing the Agent. This requirement also applies to the Agent for Linux. Ensure that sufficient space is available for decompressing the Agent package to avoid errors during extraction.</p> |
| 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. | Rectify the issue by referring to "SMS.5102 Agent startup failed because the noexec permission is unavailable on /tmp in Linux" in the documentation.                                                                                                                                                                                                                                                                                                                                                    |

| Status Code | Error Code | Error Message                                                                          | Description                                                                                                    | Solution                                                                                                                                           |
|-------------|------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| 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.                                               | Check whether the <b>/tmp</b> folder exists. If it does not, create the folder. If it does, increase the size of the <b>/tmp</b> folder.           |
| 400         | SMS.5104   | Failed to paste AK or SK.                                                              | Failed to paste AK or SK.                                                                                      | Restart the Agent.                                                                                                                                 |
| 400         | SMS.5105   | Agent startup failed. Insufficient permissions to add files to or delete files from ~. | Agent startup failed. Insufficient permissions to add files to or delete files from the <b>root</b> directory. | Rectify the issue by referring to "Agent Startup Failed. Insufficient Permissions to Add Files to or Delete Files from root" in the documentation. |
| 400         | SMS.5106   | Internal error. Failed to create a temporary directory.                                | Internal error. Failed to create a temporary directory.                                                        | Run the Agent as an administrator.                                                                                                                 |
| 400         | SMS.5107   | Failed to open the file for writing.                                                   | The file to be written could not be opened.                                                                    | Try the task again or contact technical support.                                                                                                   |
| 400         | SMS.5108   | Failed to execute df -TH.                                                              | Failed to execute <b>df -TH</b> .                                                                              | Rectify the issue by referring to "SMS.5108 Failed to execute df -TH" in the documentation.                                                        |
| 400         | SMS.5109   | The application cannot be started due to incorrect parallel configuration.             | The application failed to start because its side-by-side configuration is incorrect.                           | Rectify the issue by referring to "SMS.5109 The application cannot be started due to incorrect parallel configuration" in the documentation.       |

| Status Code | Error Code | Error Message                                                          | Description                                                                 | Solution                                                                                     |
|-------------|------------|------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| 400         | SMS.5110   | The Windows Agent unable to launch.                                    | The Agent for Windows could not be launched by double-clicking.             | Unlock the file and try again.                                                               |
| 400         | SMS.5111   | Agent startup failed. Multiple volume groups found with the same name. | Agent startup failed. Multiple volume groups were found with the same name. | Try the task again or contact technical support.                                             |
| 400         | SMS.5112   | Agent main program: linuxmain could not run.                           | The main program <b>linuxmain</b> of the Agent could not run.               | For details, see "SMS.5112 Agent main program linuxmain could not run" in the documentation. |
| 400         | SMS.5113   | Check %s on Linux timed out.                                           | Checking %s on Linux timed out.                                             | For details, see "SMS.5113 Checking %s on Linux timed out" in the documentation.             |
| 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 drivers.                                          | Uninstall the Xen drivers and install the KVM drivers.                                       |
| 400         | SMS.5401   | Disks of the Windows target server are offline.                        | Disks of the Windows target server are offline.                             | This issue may be caused by the disk online policy. Contact technical support.               |
| 400         | SMS.5402   | Network error on the target server running Windows 2003.               | Network error on the target server running Windows Server 2003.             | Use another migration method.                                                                |

| Status Code | Error Code | Error Message                                                    | Description                                                                                   | Solution                                                                                                                                                                                                                         |
|-------------|------------|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 400         | SMS.5403   | Progress is slow or suspended.                                   | The migration progress is stuck or too slow.                                                  | For details, see "Why the Migration Progress Is Suspended or Slow?" in the documentation.                                                                                                                                        |
| 400         | SMS.5404   | The target server running CentOS 6.x cannot access the Internet. | After the CentOS 6.x migration is complete, the target server cannot connect to the Internet. | Check whether the dhclient command is missing in the system. If it is missing, the IP address cannot be dynamically obtained. In this case, configure a static IP address for the target server to enable Internet connectivity. |
| 400         | SMS.5601   | The disk usage changes greatly after migration.                  | The disk usage changes greatly after migration.                                               | Compare the source and target servers or contact technical support.                                                                                                                                                              |
| 400         | SMS.5602   | Time error occurred in the target server running Linux.          | The time of the Linux server is incorrect after migration.                                    | Refer to "What Do I Do If the Linux Source Server's Clocks Are Not Synchronized to the Target Server?" in the documentation.                                                                                                     |
| 400         | SMS.5603   | The target server running Windows cannot access the Internet.    | The Windows server cannot access the Internet after the migration.                            | Refer to "Why Can't a Windows Target Server Access the Internet After the Migration Is Complete?" in the documentation.                                                                                                          |

| Status Code | Error Code | Error Message                                                                                                  | Description                                                                                                    | Solution                                                                                                                 |
|-------------|------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| 400         | SMS.5604   | The MySQL service on the target server cannot be started.                                                      | The MySQL service on the target server cannot be started.                                                      | Refer to "How Do I Troubleshoot a MySQL Startup Failure on the Target Server After the Migration?" in the documentation. |
| 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. | Refer to "Why Is the System Recovery Options Window Displayed When the Target Server Is Started?" in the documentation.  |
| 400         | SMS.5606   | Windows fails to start because the Xen driver is abnormal.                                                     | The Windows system cannot be started because the Xen drivers are abnormal.                                     | Delete the Xen drivers and synchronize data again.                                                                       |
| 400         | SMS.6000   | Service error.                                                                                                 | Service error.                                                                                                 | Contact technical support.                                                                                               |
| 400         | SMS.6001   | The source server name is a required field.                                                                    | The source name is empty.                                                                                      | The source server name must be specified.                                                                                |
| 400         | SMS.6002   | Source server name must consist of 1 to 64 characters.                                                         | A source server name can contain 1 to 64 characters.                                                           | A source server name can contain 1 to 64 characters.                                                                     |
| 400         | SMS.6003   | Only letters, digits, underscores (_), dot (.), and hyphens (-) are allowed.                                   | Only letters, digits, underscores (_), hyphens (-), and periods (.) are allowed.                               | Only letters, digits, underscores (_), hyphens (-), and periods (.) are allowed.                                         |

| Status Code | Error Code | Error Message                                                  | Description                                                 | Solution                                                        |
|-------------|------------|----------------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------|
| 400         | SMS.6004   | Invalid subtask name.                                          | The subtask name is invalid.                                | Enter a valid subtask name.                                     |
| 400         | SMS.6005   | The status of the sourceServer does not meet the requirements. | The source server status is not expected.                   | Check the task status, restart SMS Agent, and restart the task. |
| 400         | SMS.6006   | Source platform information format error.                      | The format of the source platform information is incorrect. | Restart the SMS Agent.                                          |
| 400         | SMS.6010   | The request body is not in the JSON format.                    | The request body is not in JSON format.                     | Set the request body as required.                               |
| 400         | SMS.6011   | The JSON request body does not meet the specifications.        | The JSON in the request body is invalid.                    | Set the request body as required.                               |
| 400         | SMS.6012   | Empty request body.                                            | The request body is empty.                                  | Set the request body as required.                               |
| 400         | SMS.6013   | Incomplete request parameters.                                 | Request parameters are incomplete.                          | Add all required request parameters.                            |
| 400         | SMS.6014   | The parameter part in the request body is too long.            | 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.        |

| Status Code | Error Code | Error Message                                                  | Description                                                                 | Solution                                                                             |
|-------------|------------|----------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 400         | SMS.6020   | The command name is missing.                                   | The command name is missing.                                                | Ensure stable network connectivity and retry the task, or contact technical support. |
| 400         | SMS.6021   | The command from the Agent is inconsistent with that from SMS. | The command provided by the client is inconsistent with that on the server. | Enter the command from the server correctly.                                         |
| 400         | SMS.6022   | Incorrect result format.                                       | The format of "result" is incorrect.                                        | Set "result" in the correct format.                                                  |
| 400         | SMS.6023   | Incorrect result_detail format.                                | The format of "result_detail" is incorrect.                                 | Set "result_detail" in the correct format.                                           |
| 400         | SMS.6030   | Invalid source server ID.                                      | The source server ID is invalid.                                            | 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 parameter "vm_id" is missing from the target server parameters.         | Add the target server ID.                                                            |
| 400         | SMS.6033   | The disk information is missing.                               | The disk information is missing from the target server parameters.          | Add disk information of the target server.                                           |
| 400         | SMS.6034   | Invalid region name.                                           | The region name is invalid.                                                 | Enter a valid region name.                                                           |

| Status Code | Error Code | Error Message                                        | Description                                          | Solution                                                                                                                                                  |
|-------------|------------|------------------------------------------------------|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 400         | SMS.6035   | Domain ID is missing.                                | The request body does not contain a domain ID.       | Add a domain ID.                                                                                                                                          |
| 400         | SMS.6101   | Invalid migration progress.                          | The migration progress is out of range.              | Enter an integer 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 requirements are met.                                                                                                       |
| 400         | SMS.6103   | Disk ID is missing.                                  | The disk ID is missing.                              | Enter a disk ID.                                                                                                                                          |
| 400         | SMS.6104   | Physical volume name is missing.                     | The volume name is missing.                          | Enter a volume name.                                                                                                                                      |
| 400         | SMS.6105   | Physical volume size is missing or invalid.          | The volume size information is missing or invalid.   | Enter a valid volume size.                                                                                                                                |
| 400         | SMS.6106   | Failed to obtain migration progress.                 | Failed to obtain migration progress.                 | Ensure stable network connectivity and retry the task, or contact technical support.                                                                      |
| 400         | SMS.6301   | Database read or write error.                        | Database read or write error.                        | An exception occurred during network request parameter verification. Keep the network connection normal and retry the task, or contact technical support. |

| Status Code | Error Code | Error Message                                                              | Description                                                    | Solution                                                                                                                                                  |
|-------------|------------|----------------------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 400         | SMS.6302   | No migration speed limit found.                                            | No rate limiting information related the task was found.       | Reset the rate limit.                                                                                                                                     |
| 400         | SMS.6303   | The installed Agent is of an earlier version. Download the latest version. | The Agent version is too early. Download the latest Agent.     | Download the latest Agent.                                                                                                                                |
| 400         | SMS.6304   | Fail to get config information.                                            | Obtaining the configuration information failed.                | Ensure stable network connectivity and retry the task, or contact technical support.                                                                      |
| 400         | SMS.6401   | Unsupported encoding mode.                                                 | The encoding mode is not supported.                            | Use a correct encoding mode.                                                                                                                              |
| 400         | SMS.6402   | The algorithm does not exist.                                              | The algorithm does not exist.                                  | Ensure that the parameters for accessing the API are correct.                                                                                             |
| 400         | SMS.6403   | Failed to split into strings of the specified size.                        | The string cannot be evenly divided into the specified length. | Internal server error. Contact technical support.                                                                                                         |
| 400         | SMS.6404   | An error occurred during integer conversion.                               | An error occurred during integer conversion.                   | An exception occurred during network request parameter verification. Keep the network connection normal and retry the task, or contact technical support. |
| 400         | SMS.6405   | Invalid time format.                                                       | Invalid time format.                                           | Check the time format.                                                                                                                                    |

| Status Code | Error Code | Error Message                                                                     | Description                                                                       | Solution                                                                                 |
|-------------|------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| 400         | SMS.6407   | Current quota is not enough, please use MgC.                                      | The quota is insufficient. Please use MgC.                                        | Use MgC for migration.                                                                   |
| 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. | Try the task again or contact technical support.                                         |
| 400         | SMS.6503   | Failed to obtain the OS version of the source server.                             | The source server OS version cannot be obtained.                                  | Provide a correct source OS type.                                                        |
| 400         | SMS.6504   | Unsupported source server OS version or firmware type.                            | The source server OS version or firmware type is not supported.                   | Check the compatibility list.                                                            |
| 400         | SMS.6505   | Unknown source firmware type. It must be BIOS or UEFI.                            | The source server firmware failed the check. 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.                                | Failed to obtain the number of CPUs. Restart the SMS Agent or contact technical support. |
| 400         | SMS.6507   | Failed to open the system directory of the source server.                         | Failed to open the system directory.                                              | Try the task again or contact technical support.                                         |

| Status Code | Error Code | Error Message                                                                                 | Description                                                                            | Solution                                                                                  |
|-------------|------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| 400         | SMS.6508   | Incompatible disk format on the source server. Only GPT and MBR are compatible.               | The disk format on the source server is not supported. Only GPT and MBR are supported. | Use another migration method.                                                             |
| 400         | SMS.6509   | Incompatible file system of the source server.                                                | File systems on the source server are not supported.                                   | Use another migration method.                                                             |
| 400         | SMS.6510   | The source server OS is an OEM system.                                                        | The source server OS is an OEM system.                                                 | You need to activate the system after migration.                                          |
| 400         | SMS.6511   | The source server lacks driver files.                                                         | The source end lacks necessary driver files.                                           | Refer to "SMS.6511 The source server lacks driver files" in the documentation.            |
| 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 are not running properly.               | Try the task again or contact technical support.                                          |
| 400         | SMS.6513   | No administrator permissions on the source server.                                            | Administrator permissions are not granted.                                             | Check whether the current account on the source server has the administrator permissions. |
| 400         | SMS.6514   | Failed to obtain the memory size of the source server.                                        | The memory size could not be obtained.                                                 | Restart the SMS Agent or contact technical support.                                       |

| Status Code | Error Code | Error Message                                                  | Description                                       | Solution                                                |
|-------------|------------|----------------------------------------------------------------|---------------------------------------------------|---------------------------------------------------------|
| 400         | SMS.6515   | The source server is paravirtualized.                          | Paravirtualized source servers are not supported. | Use another migration method.                           |
| 400         | SMS.6516   | The Linux bootloader must be GRUB.                             | Only Linux servers using GRUB are supported.      | Check whether the Linux boot mode is GRUB.              |
| 400         | SMS.6517   | rsync not installed on the source server.                      | rsync is not installed on the source server.      | Install rsync on the source server.                     |
| 400         | SMS.6518   | The source server has a raw device.                            | Raw devices are not supported.                    | Use another migration method.                           |
| 400         | SMS.6519   | Failed to obtain disk information.                             | No disk information is available.                 | Restart the SMS Agent or contact technical support.     |
| 400         | SMS.6520   | The source server is not in the AVAILABLE state.               | The source server is not available.               | Check the source server status.                         |
| 400         | SMS.6521   | Token-based authentication failed.                             | Token authentication failed.                      | Use the correct token.                                  |
| 400         | SMS.6522   | The X-Auth-Token header field is missing.                      | X-Auth-Token was not found in the request header. | Add X-Auth-Token to the request header.                 |
| 400         | SMS.6523   | Apply for the permission required to operate SMS.              | You do not have the permission to use SMS.        | Ensure that you have the sms_administrator permissions. |
| 400         | SMS.6524   | This operation is not allowed because you are not an OBT user. | This operation is restricted to OBT users.        | Apply for the OBT.                                      |

| Status Code | Error Code | Error Message                                                                                   | Description                                                                                           | Solution                                                                        |
|-------------|------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| 400         | SMS.6525   | Account is frozen or restricted. Check account balance and status.                              | The account or resource is frozen or restricted. Check the account balance and status.                | Ensure that the account status is normal and the account balance is sufficient. |
| 400         | SMS.6526   | Insufficient quota to clone the target server.                                                  | The available quota is insufficient to complete the target server cloning operation.                  | Increase the cloud server quota.                                                |
| 400         | SMS.6527   | The resource in the task does not belong to you.                                                | The current resource does not belong to the current user.                                             | Check the resources of the current user.                                        |
| 400         | SMS.6528   | Complete real-name authentication to invoke the SMS APIs.                                       | Users who have not completed real-name authentication cannot call SMS APIs.                           | Complete real-name authentication first.                                        |
| 400         | SMS.6529   | Only accounts with sufficient balance and does not have security risks can invoke the SMS APIs. | Accounts in arrears, with an insufficient balance, or with security risks cannot invoke the SMS APIs. | Ensure that the account status is normal and the account balance is sufficient. |
| 400         | SMS.6530   | Invalid source server IP address.                                                               | The source server's IP address is invalid.                                                            | 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.                   |

| Status Code | Error Code | Error Message                                                                          | Description                                                                                       | Solution                                                                                               |
|-------------|------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| 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 was not found on the source server.                                                           | Check whether VSS has been installed and started.                                                      |
| 400         | SMS.6534   | No system directory information read.                                                  | The system directory information is empty.                                                        | Restart the SMS Agent or contact technical support.                                                    |
| 400         | SMS.6535   | Servers booted with UEFI do not support auto-creation of target servers for migration. | Automatic creation of target servers is not supported for source servers booted with UEFI.        | Create a target server booted with UEFI manually and use it as the target server.                      |
| 400         | SMS.6536   | The source server runs Windows 2003. Network may be unavailable after migration.       | The source server runs Windows Server 2003. It may experience network exceptions after migration. | Upgrade the system and perform the migration.                                                          |
| 400         | SMS.6537   | SMS cannot migrate system disks larger than 1 TB.                                      | The system disk is larger than 1 TB.                                                              | Downsize 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. |

| Status Code | Error Code | Error Message                                                                                      | Description                                                                                          | Solution                                                                   |
|-------------|------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| 400         | SMS.6539   | The disk space is less than the total size of all partitions.                                      | The disk space is less than the total size of all partitions.                                        | The disk space is less than the total size of all partitions.              |
| 400         | SMS.6540   | Partitions on target servers running Windows cannot be reduced.                                    | Partitions on Windows target servers cannot be downsized.                                            | Resize the disks and partitions on the source server and restart the Agent |
| 400         | SMS.6541   | The VG size is smaller than the combined size of all LVs.                                          | The size of the volume group is smaller than the total size of all logical volumes.                  | Downsize logical volumes or contact technical support.                     |
| 400         | SMS.6542   | Your account has been frozen.                                                                      | Your account has been frozen.                                                                        | Unfreeze your account.                                                     |
| 400         | SMS.6543   | There is more than 1 TB of data to be migrated. It may slow down the migration or synchronization. | The total amount of data to be migrated exceeds 1 TB. The migration and synchronization may be slow. | Continue the migration after confirming risks.                             |
| 400         | SMS.6544   | Network condition for migration is poor.                                                           | The migration network is in poor conditions.                                                         | Continue the migration after confirming risks.                             |

| Status Code | Error Code | Error Message                                                                                                           | Description                                                                                                             | Solution                                                                                                                      |
|-------------|------------|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| 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.                                                                                             |
| 400         | SMS.6560   | Failed to obtain the project-level token.                                                                               | Failed to obtain the project-level token.                                                                               | The token is called unexpectedly and may pose security risks. 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 an UEFI image.                                                                                   |
| 400         | SMS.6562   | Failed to obtain target server IP address.                                                                              | Failed to obtain target server IP address.                                                                              | Refer to "SMS.6564: Component i386-pc not found on source server. For solution, see SMS API Reference." in the documentation. |

| Status Code | Error Code | Error Message                                                                 | Description                                                                     | Solution                                                                                                                 |
|-------------|------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| 400         | SMS.6601   | Invalid OS type.                                                              | Invalid OS type.                                                                | Set "os_type" by referring to the <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.                 | Network request error. Retry the task later or contact technical support.                                                |
| 400         | SMS.6605   | ACL or security group configuration error.                                    | The ACL or security group settings are incorrect.                               | Modify the ACL or security group settings.                                                                               |
| 400         | SMS.6610   | The OS in the task conflicts with the source server OS.                       | The task type does not match the source server OS.                              | Check whether the task type matches the source server OS.                                                                |
| 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 1 MB. | Enter a valid partition size.                                                                                            |

| Status Code | Error Code | Error Message                                                                 | Description                                                                   | Solution                                                                                         |
|-------------|------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| 400         | SMS.6613   | 33 MB of space must be reserved for GPT disks.                                | 33 MB space must be reserved for disks in GPT format.                         | 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 used in a migration task.                          | Change another server.                                                                           |
| 400         | SMS.6616   | The current OS does not support block-level migration.                        | Block-level migration is not supported for the current OS release.            | Use another migration method.                                                                    |
| 400         | SMS.6617   | The current kernel does not support block-level migration.                    | Block-level migration is not supported for the current kernel release.        | Use another migration method.                                                                    |
| 400         | SMS.6618   | Failed to obtain kernel details.                                              | Failed to obtain kernel details.                                              | Try the task again or contact technical support.                                                 |
| 400         | SMS.6619   | Disk encryption key not available.                                            | The disk encryption key is unavailable.                                       | Check whether the key status is normal and ensure that the AES_256 encryption algorithm is used. |
| 400         | SMS.6620   | Key %d is not enabled.                                                        | Key %d is not enabled.                                                        | Check the key status.                                                                            |
| 400         | SMS.7101   | Template does not exist.                                                      | The template does not exist.                                                  | Check whether the template exists.                                                               |

| Status Code | Error Code | Error Message                                                                   | Description                                                                     | Solution                                                                                      |
|-------------|------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| 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.7113   | Maximum templates reached.                                                      | The maximum number of templates is reached.                                     | Go to the SMS console and delete unneeded migration templates.                                |
| 400         | SMS.7301   | The specified migration template does not exist.                                | The specified migration template does not exist.                                | Check whether the migration template exists.                                                  |
| 400         | SMS.7303   | The default migration template cannot be deleted.                               | The default project cannot be deleted.                                          | The specified migration template does not exist. Check whether the migration template exists. |
| 400         | SMS.7304   | The default migration template does not exist.                                  | The default migration template does not exist.                                  | Create a migration template and set it as the default one.                                    |
| 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.                                                            |

| Status Code | Error Code | Error Message                                                                                                                                | Description                                                                                                                                            | Solution                                                                       |
|-------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| 400         | SMS.7313   | The default migration project already exists.                                                                                                | The default migration project already exists.                                                                                                          | The specified migration template already exists. Use another template.         |
| 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.                                                                    | Try the task again or contact technical support.                               |
| 400         | SMS.7501   | No application ID generated.                                                                                                                 | Failed to generate the application ID.                                                                                                                 | Try the task again or contact technical support.                               |
| 400         | SMS.7601   | Failed to delete the source server because a migration task is running on it.                                                                | There is a task on the source server, and the server cannot be deleted.                                                                                | Try the task again or 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.                                                                                                               | Restart the SMS Agent or contact technical support.                            |
| 400         | SMS.7605   | The server has been set as the target server of another migration task. Select another server or delete the task associated with the server. | The server has been set as the target server in another migration task. Select another server or delete the migration task associated with the server. | Select another server or delete the migration task associated with the server. |

| Status Code | Error Code | Error Message                                                            | Description                                                                    | Solution                                                                                                                           |
|-------------|------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| 400         | SMS.7606   | No migration task running on the source server.                          | No migration task runs on the source server.                                   | The migration task was deleted unexpectedly. Restart the Agent on the source server and reconfigure the migration task.            |
| 400         | SMS.7703   | Task does not exist.                                                     | The 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 during JSON file processing for task creation.               | The network request parameters are incorrect. Keep the network connection normal and retry the task, or contact technical support. |
| 400         | SMS.7706   | Task update failed.                                                      | Task update failed.                                                            | Network request error. Retry the task or contact technical support.                                                                |
| 400         | SMS.7707   | The current Agent version does not support log upload.                   | The Agent version does not support log upload.                                 | Ensure that the Agent version is 25.2.0 or later.                                                                                  |
| 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.                                                                                                            |
| 400         | SMS.7714   | Only running tasks can be paused.                                        | Only running tasks can be paused.                                              | Change the task status.                                                                                                            |

| Status Code | Error Code | Error Message                                                                                    | Description                                                                                          | Solution                                                                     |
|-------------|------------|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| 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 launched.    | Change the task status.                                                      |
| 400         | SMS.7722   | Only tasks where the target servers have successfully started can be restarted.                  | Only tasks where the target servers have successfully launched can be restarted.                     | Check whether the target server for the task has been launched successfully. |

| Status Code | Error Code | Error Message                                                                                                                          | Description                                                                                                                                   | Solution                                                                                                                                                                   |
|-------------|------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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.                                                                                                                          | An exception occurred during the verification of task parameters. Restart the Agent on the source server and reconfigure the migration task, or contact technical support. |
| 400         | SMS.7725   | No region information found.                                                                                                           | No region information found.                                                                                                                  | Try the task again or 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 for the source server. The request body lacks the "copystate" or "migrationcycle" field.       | 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 for 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                                                                                                                           | Solution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------|------------|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 400         | SMS.7728   | Change server replication state or migration cycle failed. Values of <b>copystate</b> and <b>migrationcycle</b> do not match. | Failed to update the migration status or stage for the source server. Fields <b>copystate</b> and <b>migrationcycle</b> do not match. | <p>Set <b>copystate</b> and <b>migrationcycle</b> according to the following rules:</p> <ul style="list-style-type: none"> <li>• If the value of <b>migrationcycle</b> is <b>checking</b>, the value of <b>copystate</b> can be <b>unavailable</b>, <b>waiting</b>, or <b>unconnected</b>.</li> <li>• If the value of <b>migrationcycle</b> is <b>setting</b>, the value of <b>copystate</b> can be <b>waiting</b> or <b>unconnected</b>.</li> <li>• If the value of <b>migrationcycle</b> is <b>replicating</b>, the value of <b>copystate</b> can be <b>initialize</b>, <b>replicate</b>, <b>deleting</b>, <b>stopping</b>, <b>error</b>, <b>stopped</b>, or <b>unconnected</b>.</li> <li>• If the value of <b>migrationcycle</b> is <b>syncing</b>, the value of <b>copystate</b> can be <b>syncing</b>, <b>cloning</b>, <b>deleting</b>, <b>stopping</b>, <b>error</b>, <b>stopped</b>, or <b>unconnected</b>.</li> <li>• If the value of <b>migrationcycle</b> is</li> </ul> |

| Status Code | Error Code | Error Message                                                  | Description                                                    | Solution                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------|------------|----------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             |            |                                                                |                                                                | <p><b>cutovering</b>, the value of <b>copystate</b> can be <b>cutovering</b>, <b>deleting</b>, <b>stopping</b>, <b>error</b>, <b>stopped</b>, or <b>unconnected</b>.</p> <ul style="list-style-type: none"> <li>If the value of <b>migrationcycle</b> is <b>cutovered</b>, the value of <b>copystate</b> can be <b>finished</b>, <b>deleting</b>, <b>stopping</b>, <b>error</b>, <b>stopped</b>, or <b>unconnected</b>.</li> </ul> |
| 400         | SMS.8101   | Failed to stop the target server.                              | Failed to stop the target server.                              | Try the task again or contact technical support.                                                                                                                                                                                                                                                                                                                                                                                   |
| 400         | SMS.8102   | The target server is missing.                                  | The target server is missing from the SMS task.                | Set target server parameters.                                                                                                                                                                                                                                                                                                                                                                                                      |
| 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.              | Check whether the target server was deleted. If it was not, 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. | Check whether disks are attached to the target server. If yes, contact technical support.                                                                                                                                                                                                                                                                                                                                          |

| Status Code | Error Code | Error Message                                         | Description                                           | Solution                                                                   |
|-------------|------------|-------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------------------------|
| 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.                      |
| 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.                               | Network request error. Retry the task or contact technical support.        |
| 400         | SMS.8109   | No source server found.                               | Source server not found.                              | Check whether the server record has been deleted.                          |
| 400         | SMS.8110   | Disk detachment failed.                               | Disk detachment failed.                               | Network request error. Retry the task or 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 permissions to perform this operation.          |
| 400         | SMS.8115   | Maximum templates: 50                                 | A maximum of 50 templates can be created.             | Go to the SMS console, delete unneeded migration templates, and try again. |

| Status Code | Error Code | Error Message                                                           | Description                                                     | Solution                                                                                      |
|-------------|------------|-------------------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| 400         | SMS.9001   | Invalid parameters.                                                     | Invalid parameters.                                             | Check whether the parameters are correct.                                                     |
| 400         | SMS.9002   | User tags are not supported.                                            | User tags are not supported.                                    | User tags are not supported.                                                                  |
| 400         | SMS.9003   | Insufficient permissions.                                               | Insufficient permissions.                                       | Obtain the required permissions.                                                              |
| 400         | SMS.9004   | The current account does not have the permission to execute policy {0}. | Insufficient permissions to perform {}.                         | Obtain the required permissions.                                                              |
| 400         | SMS.9005   | Failed to bind the enterprise project.                                  | Failed to bind the enterprise project.                          | Check whether the enterprise project exists and retry the task, or 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

See [Table 6-1](#).

**Table 6-1** Status codes

| Status Code | Error Message | Description                                                                                                                                                                                         |
|-------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 100         | Continue      | The client continues sending the request.<br>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. |

| Status Code | Error Message                 | Description                                                                                                                                                                                                                              |
|-------------|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 101         | Switching Protocols           | Switching protocols. The target protocol must be more advanced than the source protocol.<br>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.                                                                                                                                                                |
| 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.<br>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.<br>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.                                                                                                                                                                                 |

| Status Code | Error Message                 | Description                                                                                                                                                                                             |
|-------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 306         | Unused                        | The HTTP status code is no longer used.                                                                                                                                                                 |
| 400         | BadRequest                    | Invalid request.<br>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.                                                                                                                                                            |
| 403         | Forbidden                     | The server understood the request, but is refusing to fulfill it.<br>The client should not repeat the request without modifications.                                                                    |
| 404         | NotFound                      | The requested resource cannot be found.<br>The client should not repeat the request without modifications.                                                                                              |
| 405         | MethodNotAllowed              | The method specified in the request is not supported for the requested resource.<br>The client should not repeat the request without modifications.                                                     |
| 406         | Not Acceptable                | The server cannot fulfill the request according to the content characteristics of the request.                                                                                                          |
| 407         | Proxy Authentication Required | This status code is similar to 401, but indicates that the client must first authenticate itself with the proxy.                                                                                        |
| 408         | Request Time-out              | The request timed out.<br>The client may repeat the request without modifications at any later time.                                                                                                    |
| 409         | Conflict                      | The request cannot be processed due to a conflict.<br>This status code indicates that the resource that the client attempts to create already exists, or the requested update failed due to a conflict. |
| 410         | Gone                          | The requested resource is no longer available.<br>The status code indicates that the requested resource has been deleted permanently.                                                                   |
| 411         | Length Required               | The server refuses to process the request without a defined Content-Length.                                                                                                                             |

| Status Code | Error Message                   | Description                                                                                                                                                                                                                                                                                                                                         |
|-------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 412         | Precondition Failed             | The server does not meet one of the preconditions that the requester puts on the request.                                                                                                                                                                                                                                                           |
| 413         | Request Entity Too Large        | The 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-URI Too Large           | The URI provided was too long for the server to process.                                                                                                                                                                                                                                                                                            |
| 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.<br>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 <b>Timeout</b> 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. You need to obtain a project ID before you call an API. 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. Sign in to [Huawei Cloud 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.