

Server Migration Service

API Reference

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1 Before You Start

1.1 Overview

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](#).

1.2 API Calling

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

1.3 Endpoints

An endpoint is the **request address** for calling an API. Endpoints vary depending on services and regions. For the SMS endpoints, see [Regions and Endpoints](#).

1.4 Concepts

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

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

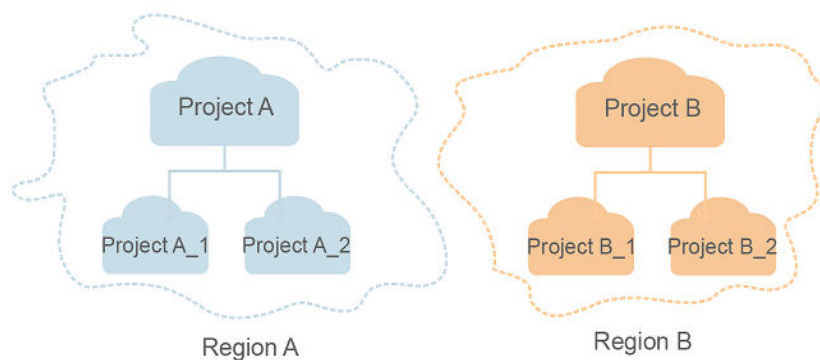
- AZ

An AZ comprises of one or more physical data centers equipped with independent ventilation, fire, water, and electricity facilities. Computing, network, storage, and other resources in an AZ are logically divided into multiple clusters. AZs within a region are interconnected using high-speed optical fibers to allow you to build cross-AZ high-availability systems.

- Project

A project corresponds to a region. Default projects are defined to a group and have physically isolated resources (including computing, storage, and network resources) across regions. Users can be granted permissions in a default project to access all resources in the region under their accounts. If you need more refined access control, create subprojects under a default project and create resources in subprojects. Then you can assign users the permissions required to access only the resources in the specific subprojects.

Figure 1-1 Project isolation model



2 API Overview

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

Table 2-1 SMS API list

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

3 Calling APIs

3.1 Making an API Request

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

Request URI

A request URI is in the following format:

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

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

Table 3-1 URI parameter description

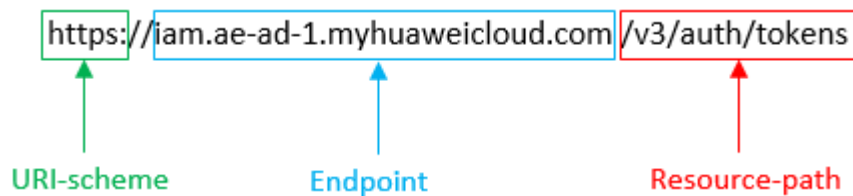
Parameter	Description
URI-scheme	Protocol used to transmit requests. All APIs use HTTPS.
Endpoint	Domain name or IP address of the server bearing the REST service. The endpoint varies between services in different regions. It can be obtained from Regions and Endpoints . For example, the endpoint of IAM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

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

For example, to obtain an IAM token in the **UAE-Abu Dhabi** region, obtain the endpoint of IAM (**iam.ae-ad-1.myhuaweicloud.com**) for this region and the **resource-path** (**/v3/auth/tokens**) in the URI of the API used to **obtain a user token**. Then, construct the URI as follows:

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

Figure 3-1 Example URI



NOTE

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

Request Methods

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

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.

Method	Description
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.ae-ad-1.myhuaweicloud.com/v3/auth/tokens
```

Request Header

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

Common request header fields are as follows.

Table 3-3 Common request header fields

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

Parameter	Description	Mandatory	Example Value
Content-Type	Specifies the type (or format) of the message body. The default value application/json is recommended. Other values of this field will be provided for specific APIs if any.	Yes	application/json
Content-Length	Specifies the length of the request body. The unit is byte.	No	3495
X-Project-Id	Specifies the project ID. Obtain the project ID by following the instructions in Obtaining a Project ID .	No	e9993fc787d94b6c886cb aa340f9c0f4
X-Auth-Token	Specifies the user token. It is a response to the API for obtaining a user token (This is the only API that does not require authentication). After the request is processed, the value of X-Subject-Token in the response header is the token value.	No This field is mandatory for token authentication.	The following is part of an example token: MIIPAgYJKoZlhvcNAQc-Co...ggg1BBIINPXsidG9rZ

 **NOTE**

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

For more details, see **Authentication Using AK/SK** in [Authentication](#).

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

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

(Optional) Request Body

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

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

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

NOTE

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

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

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

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

3.2 Authentication

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

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

Token-based Authentication

NOTE

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

A token specifies temporary permissions in a computer system. During API authentication using a token, the token is added to requests to get permissions for calling the API.

You can obtain a token by calling the [Obtaining User Token](#) API. When you call the API, set **auth.scope** in the request body to **domain**.

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

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

```
POST https://iam.ae-ad-1.myhuaweicloud.com/v3/auth/projects
Content-Type: application/json
X-Auth-Token: ABCDEFJ....
```

AK/SK-based Authentication

NOTE

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

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

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

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

 **NOTE**

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

3.3 Response

Status Code

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

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

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

Response Header

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

[Figure 3-2](#) shows the response header fields for the API used to [obtain a user token](#). The **x-subject-token** header field is the desired user token. This token can then be used to authenticate the calling of other APIs.

Figure 3-2 Header fields of the response to the request for obtaining a user token

```

connection → keep-alive

content-type → application/json

date → Tue, 12 Feb 2019 06:52:13 GMT

server → Web Server

strict-transport-security → max-age=31536000; includeSubdomains;

transfer-encoding → chunked

via → proxy A

x-content-type-options → nosniff

x-download-options → noopen

x-frame-options → SAMEORIGIN

x-iam-trace-id → 218d45ab-d674-4995-af3a-2d0255ba41b5

x-subject-token
→ MIIYXQYJKoZIhvcNAQcCoIIVTJCCGEOCAQExDTALBglghkgBZQMEAgEwgharBgkqhkiG9w0BBwGgghacBIIWmHsidG9rZW4iOansiZXhwaXJlc19hdCI6IjwMTktMDItMTNUMC
fj3KJ56YgKnpVNRbW2eZ5eb78SZOkajACgkIQ01wi4JIGzrpd18LGXK5bdfq4lqHCYb8P4NaYONYeJcAgzVefYtLWT1GSO0zxKZmlQHq82HBqHdgIZO9fuEbl5dMhdavj+33wEl
xHRCe9I87o+k9-
j+CMZSEB7bUGd5Uj6eRASXl1jipPEGA270g1FruooL6jggIFkNPQuFSOU8+uSsttVwRtnfsc+qTp22Rkd5MCqFGQ8LcuUxC3a+9CMBnOintWW7oeRUUVhVpxk8pxiX1wTEboX-
RzT6MUbpvGw-oPNFYxJECKnoH3HRozv0vN--n5d6Nbxg==

x-xss-protection → 1; mode=block;

```

(Optional) Response Body

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

The following shows part of the response body for the API to **obtain a user token**. For the sake of space, only part of the content is displayed here.

```

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

```

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

```

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

```

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

4 APIs V3.0

4.1 Source Server Management

4.1.1 Listing Failed Source Servers

Function

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

URI

GET /v3/errors

Table 4-1 Query parameters

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

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

Request

Table 4-2 Request header parameter

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

Response

Status code: 200

Table 4-3 Response body parameters

Parameter	Type	Description
count	Integer	Specifies the number of source servers that failed to be migrated due to errors. Minimum value: 0 Maximum value: 2147483647
migration_errors	Array of MigrationErrors objects	Specifies the details of the failed source servers.

Table 4-4 MigrationErrors field description

Parameter	Type	Description
error_json	String	Specifies the error message in JSON format. Minimum length: 0 characters Maximum length: 255 characters
host_name	String	Specifies the host name 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	Specifies the source server name defined on the SMS console. Minimum length: 0 characters Maximum length: 255 characters
source_id	String	Specifies the source server ID. Minimum length: 0 characters Maximum length: 255 characters
source_ip	String	Specifies the IP address of the source server. Minimum length: 0 characters Maximum length: 255 characters
target_ip	String	Specifies the IP address of the target server. Minimum length: 0 characters Maximum length: 255 characters

Example Request

Query the list of source servers that failed to be migrated due to errors. Record 10 source servers on each page, and display the servers recorded on 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

See [Error Codes](#).

4.1.2 Registering a Source Server with SMS

Function

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

URI

POST /v3/sources

Request

Table 4-5 Request header parameter

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

Table 4-6 Request body parameters

Specifies the parameter.	Mandatory	Type	Description
id	No	String	Specifies the ID of the source server in the SMS database. Minimum length: 0 characters Maximum length: 255 characters
ip	Yes	String	Specifies 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	Yes	String	Specifies the name of the source server displayed on the SMS console. Minimum length: 0 characters Maximum length: 255 characters

Specifies the parameter.	Mandatory	Type	Description
hostname	No	String	Specifies the host name of the source server. This parameter is mandatory for registering the source server with SMS and optional for updating the information about the source server. Minimum length: 0 characters Maximum length: 255 characters
os_type	Yes	String	Specifies the OS type of the source server. This parameter is mandatory for registering the source server with SMS and optional for updating the information about the source server. Minimum length: 0 characters Maximum length: 255 characters The value can be: <ul style="list-style-type: none"> • WINDOWS • LINUX
os_version	No	String	Specifies the OS version. Minimum length: 0 characters Maximum length: 255 characters
firmware	No	String	Specifies the boot mode. Minimum length: 0 characters Maximum length: 255 characters The value can be: <ul style="list-style-type: none"> • BIOS • UEFI
cpu_quantity	No	Integer	Specifies the number of CPUs. Minimum value: 0 Maximum value: 65535

Specifies the parameter.	Mandatory	Type	Description
memory	No	Long	Specifies the memory size (MB). Minimum value: 0 Maximum value: 9223372036854775807
disks	No	Array of ServerDisk objects	Specifies the disk information of the source server.
btrfs_list	No	Array of BtrfsFileSystem objects	Specifies the Btrfs information on the source server. This parameter is mandatory for Linux. If no Btrfs exists on the source server, an empty array will be returned.
networks	No	Array of NetWork objects	Specifies the NIC information of the source server.
domain_id	No	String	Specifies the domain ID of a tenant. Minimum length: 0 characters Maximum length: 255 characters
has_rsync	No	Boolean	Specifies whether rsync is installed. This parameter is mandatory for Linux.
paravirtualization	No	Boolean	Specifies whether the source server is paravirtualized. This parameter is mandatory for Linux.
raw_devices	No	String	Specifies the list of raw devices. This parameter is mandatory for Linux. Minimum length: 0 characters Maximum length: 255 characters
driver_files	No	Boolean	Specifies whether any driver files are missing. This parameter is mandatory for Windows.

Specifies the parameter.	Mandatory	Type	Description
system_services	No	Boolean	Specifies whether there are abnormal services. This parameter is mandatory for Windows.
account_rights	No	Boolean	Specifies whether the account has the required permissions. This parameter is mandatory for Windows.
boot_loader	No	String	Specifies the system boot mode. This parameter is mandatory for Linux. The value can be: <ul style="list-style-type: none"> • GRUB • LILO
system_dir	No	String	Specifies the system directory. This parameter is mandatory for Windows. Minimum length: 0 characters Maximum length: 255 characters
volume_groups	No	Array of VolumeGroups objects	This parameter is mandatory for Linux. If there is no volume group, remain an empty array [].
agent_version	Yes	String	Specifies the Agent version. Minimum length: 0 characters Maximum length: 255 characters

Table 4-7 ServerDisk

Parameter	Mandatory	Type	Description
name	Yes	String	Specifies the disk name. Minimum length: 0 characters Maximum length: 255 characters

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

Table 4-8 PhysicalVolume

Parameter	Mandatory	Type	Description
device_use	No	String	Specifies the partition type. The value can be NORMAL , BOOT , or OS . Minimum length: 0 characters Maximum length: 255 characters
file_system	No	String	Specifies the file system type. Minimum length: 0 characters Maximum length: 255 characters
index	No	Integer	Specifies the serial number of the volume. Minimum value: 0 Maximum value: 2147483647
mount_point	No	String	Specifies the mount point. Minimum length: 0 characters Maximum length: 255 characters
name	No	String	Specifies 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	Specifies the volume size. Minimum value: 0 Maximum value: 9223372036854775807
used_size	No	Long	Specifies the used space. Minimum value: 0 Maximum value: 9223372036854775807

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

Table 4-9 BtrfsFileSystem

Parameter	Mandatory	Type	Description
name	Yes	String	Specifies the file system name. Minimum length: 0 characters Maximum length: 255 characters
label	Yes	String	Specifies 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	Specifies the UUID of the file system. Minimum length: 0 characters Maximum length: 255 characters
device	Yes	String	Specifies the device name in the Btrfs. Minimum length: 0 characters Maximum length: 255 characters
size	Yes	Long	Specifies the space occupied by the file system. Minimum value: 0 Maximum value: 9223372036854775807

Parameter	Mandatory	Type	Description
nodesize	Yes	Long	Specifies the size of the Btrfs node. Minimum value: 0 Maximum value: 9223372036854775807
sectorsize	Yes	Integer	Specifies the sector size. Minimum value: 0 Maximum value: 2147483647
data_profile	Yes	String	Specifies the data profile (RAD). Minimum length: 0 characters Maximum length: 255 characters
system_profile	Yes	String	Specifies the file system profile (RAD). Minimum length: 0 characters Maximum length: 255 characters
metadata_profile	Yes	String	Specifies the metadata profile (RAD). Minimum length: 0 characters Maximum length: 255 characters
global_reserve_1	Yes	String	Specifies the Btrfs file system information. Minimum length: 0 characters Maximum length: 255 characters
g_vol_used_size	Yes	Long	Specifies the used space of the Btrfs volume. Minimum value: 0 Maximum value: 9223372036854775807
default_subvolume_id	Yes	String	Specifies the ID of the default subvolume. Minimum length: 0 characters Maximum length: 255 characters

Parameter	Mandatory	Type	Description
default_subvol_name	Yes	String	Specifies the name of the default subvolume. Minimum length: 0 characters Maximum length: 255 characters
default_subvol_mountpath	Yes	String	Specifies the mount path of the default subvolume or Btrfs file system. Minimum length: 0 characters Maximum length: 255 characters
subvolumn	Yes	Array of BtrfsSubvolumn objects	Specifies the subvolume information.

Table 4-10 BtrfsSubvolumn field description

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

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

Table 4-11 NetWork field description

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

Parameter	Mandatory	Type	Description
id	No	String	Specifies the database ID. Minimum length: 0 characters Maximum length: 255 characters

Table 4-12 VolumeGroups field description

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

Table 4-13 LogicalVolumes field description

Parameter	Mandatory	Type	Description
block_count	No	Integer	Specifies the number of blocks. Minimum value: 0 Maximum value: 4294967296 Default value: 0

Parameter	Mandatory	Type	Description
block_size	No	Long	Specifies the block size. Minimum value: 0 Maximum value: 1048576 Default value: 0
file_system	Yes	String	Specifies the file system. Minimum length: 0 characters Maximum length: 255 characters
inode_size	Yes	Integer	Specifies the number of inodes. Minimum value: 0 Maximum value: 4294967296
mount_point	Yes	String	Specifies the mount point. Minimum length: 0 characters Maximum length: 256 characters
name	Yes	String	Specifies the volume group name. Minimum length: 0 characters Maximum length: 1,024 characters
size	Yes	Long	Specifies the volume size. Minimum value: 0 Maximum value: 9223372036854775807
used_size	Yes	Long	Specifies the used space. Minimum value: 0 Maximum value: 9223372036854775807
free_size	Yes	Long	Specifies the available space. Minimum value: 0 Maximum value: 9223372036854775807

Response

Status code: 200

Table 4-14 Response body parameter

Parameter	Type	Description
id	String	Specifies 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 basic 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",
  "mac" : "1a9660eb8a3ffcf4df6d7865b52eb54f7b0cd194029e0eadd8e2c7f1267d80c0"
} ],
"ip" : "192.168.136.161",
"agent_version" : "2.2.1"
}
```

Example Response

Status code: 200

The source server has been registered with SMS.

```
{
  "id" : "8abda8635e09d185015e09d188dd0001xx"
}
```

Status Codes

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

Error Codes

See [Error Codes](#).

4.1.3 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 obtain the list of registered source servers.

URI

GET /v3/sources

Table 4-15 Query parameters

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

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

Request

Table 4-16 Request header parameter

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

Response

Status code: 200

Table 4-17 Response body parameters

Parameter	Type	Description
count	Integer	Specifies the total number of source servers that meet the query criteria, which is not affected by limit and offset . Minimum value: 0 Maximum value: 2147483647
source_servers	Array of SourceServersResponseBody objects	Specifies the list of the queried source servers.

Table 4-18 SourceServersResponseBody field description

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

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

Parameter	Type	Description
state	String	Specifies the source server status. Minimum length: 0 characters Maximum length: 255 characters The value can be: <ul style="list-style-type: none"> • unavailable • waiting • initialize • replicate • syncing • stopping • stopped • deleting • error • cloning • cutovering • finished
connected	Boolean	Specifies whether the source server is properly connected to SMS.
cpu_quantity	Integer	Specifies the number of CPU cores on the source server. Minimum value: 0 Maximum value: 2147483647
memory	Long	Specifies the physical memory size of the source server, in bytes. Minimum value: 0 Maximum value: 9223372036854775807
current_task	TaskByServer Sources object	Specifies the migration task associated with the source server.
checks	Array of Environment Check objects	Specifies the check items of the source server.
init_target_server	InitTargetServer object	Specifies the recommended configuration of the target server.
replicatesize	Long	Specifies the amount of migrated data, in bytes. Minimum value: 0 Maximum value: 9223372036854775807

Parameter	Type	Description
stage_action_time	Long	Specifies the time when the migration stage of the source server last changed. Minimum value: 0 Maximum value: 9223372036854775807
totalsize	Long	Specifies the total amount of data to be migrated, in bytes. Minimum value: 0 Maximum value: 9223372036854775807
last_visit_time	Long	Specifies the time when the Agent connection status last changed. Minimum value: 0 Maximum value: 9223372036854775807
migration_cycle	String	Specifies the current migration stage of the source server. Minimum length: 0 characters Maximum length: 255 characters The value can be: <ul style="list-style-type: none"> • cutovering • cutovered • checking • setting • replicating • syncing
state_action_time	Long	Specifies the time when the status of the source server last changed. Minimum value: 0 Maximum value: 9223372036854775807

Table 4-19 TaskByServerSources field description

Parameter	Type	Description
id	String	Specifies the task ID. Minimum length: 1 character Maximum length: 255 characters
name	String	Specifies the task name. Minimum length: 0 characters Maximum length: 255 characters

Parameter	Type	Description
type	String	Specifies the task type. Minimum length: 0 characters Maximum length: 255 characters
state	String	Specifies the task status. Minimum length: 0 characters Maximum length: 255 characters
estimate_complete_time	Long	Specifies the estimated completion time. Minimum value: 0 Maximum value: 9223372036854775807
start_date	Long	Specifies the start time. Minimum value: 0 Maximum value: 9223372036854775807
speed_limit	Integer	Specifies the migration rate limit. Minimum value: 0 Maximum value: 10000
migrate_speed	Double	Specifies the migration rate. Minimum value: 0 Maximum value: 10000
compress_rate	Double	Specifies the compression rate. Minimum value: 0 Maximum value: 10000
start_target_server	Boolean	Specifies whether the target server is started.
vm_template_id	String	Specifies the ID of the template used for creating the target server. Minimum length: 0 characters Maximum length: 255 characters
region_id	String	region_id Minimum length: 0 characters Maximum length: 255 characters
project_name	String	Specifies the project name. Minimum length: 0 characters Maximum length: 255 characters
project_id	String	Specifies the project ID. Minimum length: 0 characters Maximum length: 255 characters

Parameter	Type	Description
target_server	TargetServerByld object	Specifies the information about the target server.
log_collect_status	String	Specifies the log collection status. Minimum length: 0 characters Maximum length: 255 characters
exist_server	Boolean	Specifies whether an existing ECS is used as the target server.
use_public_ip	Boolean	Specifies whether to use a public IP address for migration.
clone_server	CloneServer object	Specifies the information about the cloned server.
remain_seconds	Long	Specifies the migration duration. Minimum value: 0 Maximum value: 9223372036854775807

Table 4-20 TargetServerByld field description

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

Table 4-21 CloneServer field description

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

Parameter	Type	Description
clone_error	String	Specifies the error message returned for cloning failure. Minimum length: 0 characters Maximum length: 255 characters
clone_state	String	Specifies the cloning status. Minimum length: 0 characters Maximum length: 255 characters
error_msg	String	Specifies the error message returned for cloning failure. Minimum length: 0 characters Maximum length: 1,024 characters

Table 4-22 EnvironmentCheck field description

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

Table 4-23 InitTargetServer field description

Parameter	Type	Description
disks	Array of DiskIntargetServer objects	Specifies the disk information of the target server.

Table 4-24 DiskIntargetServer field description

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

Status code: 500

Table 4-25 Response body parameter

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

Example Request

Query the source server list. Record 10 source servers on each page, and display the servers recorded on page 0.

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

Example Response

Status code: 200

The source server list is obtained.

```
{
  "count" : 10,
  "source_servers" : [ {
    "id" : "7583895d-627b-4643-82bc-c2aec1576a75",
    "ip" : "192.168.0.1",
    "name" : "sms-test",
    "hostname" : "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_or_warn" : null,
    "error_params" : ""
  }, {
    "id" : 524063,
    "params" : [ "" ],
    "name" : "FIRMWARE",
    "result" : "OK",
    "error_code" : null,
    "error_or_warn" : null,
  }
  ]
}
```



```
"error_params" : ""
}, {
  "id" : 524064,
  "params" : [ "" ],
  "name" : "CPU",
  "result" : "OK",
  "error_code" : null,
  "error_or_warn" : null,
  "error_params" : ""
}, {
  "id" : 524065,
  "params" : [ "" ],
  "name" : "MEMORY",
  "result" : "OK",
  "error_code" : null,
  "error_or_warn" : null,
  "error_params" : ""
}, {
  "id" : 524066,
  "params" : [ "" ],
  "name" : "SYSTEM_ROOT",
  "result" : "OK",
  "error_code" : null,
  "error_or_warn" : null,
  "error_params" : ""
}, {
  "id" : 524067,
  "params" : [ "" ],
  "name" : "PARTITION_STYLE",
  "result" : "OK",
  "error_code" : null,
  "error_or_warn" : null,
  "error_params" : ""
}, {
  "id" : 524068,
  "params" : [ "" ],
  "name" : "FILE_SYSTEM",
  "result" : "OK",
  "error_code" : null,
  "error_or_warn" : null,
  "error_params" : ""
}, {
  "id" : 524069,
  "params" : [ "" ],
  "name" : "FREE_SPACE",
  "result" : "OK",
  "error_code" : null,
  "error_or_warn" : null,
  "error_params" : ""
}, {
  "id" : 524070,
  "params" : [ "" ],
  "name" : "OEM_SYSTEM",
  "result" : "OK",
  "error_code" : null,
  "error_or_warn" : null,
  "error_params" : ""
}, {
  "id" : 524071,
  "params" : [ "" ],
  "name" : "DRIVER_FILE",
  "result" : "OK",
  "error_code" : null,
  "error_or_warn" : null,
  "error_params" : ""
}, {
  "id" : 524072,
  "params" : [ "" ],
  "name" : "SERVICE",
```

```

"result": "OK",
"error_code": null,
"error_or_warn": null,
"error_params": ""
}, {
  "id": 524073,
  "params": [ "" ],
  "name": "ACCOUNT_RIGHTS",
  "result": "OK",
  "error_code": null,
  "error_or_warn": 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",
  "hostname": "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_or_warn" : null,
"error_params" : ""
}, {
  "id" : 524051,
  "params" : [ "" ],
  "name" : "FIRMWARE",
  "result" : "OK",
  "error_code" : null,
  "error_or_warn" : null,
  "error_params" : ""
}, {
  "id" : 524052,
  "params" : [ "" ],
  "name" : "CPU",
  "result" : "OK",
  "error_code" : null,
  "error_or_warn" : null,
  "error_params" : ""
}, {
  "id" : 524053,
  "params" : [ "" ],
  "name" : "MEMORY",
  "result" : "OK",
  "error_code" : null,
  "error_or_warn" : null,
  "error_params" : ""
}, {
  "id" : 524054,
  "params" : [ "" ],
  "name" : "SYSTEM_ROOT",
  "result" : "OK",
  "error_code" : null,
  "error_or_warn" : null,
  "error_params" : ""
}, {
  "id" : 524055,
  "params" : [ "" ],
  "name" : "PARTITION_STYLE",
  "result" : "OK",
  "error_code" : null,
  "error_or_warn" : null,
  "error_params" : ""
}, {
  "id" : 524056,
  "params" : [ "" ],
  "name" : "FILE_SYSTEM",
  "result" : "OK",
  "error_code" : null,
  "error_or_warn" : null,
  "error_params" : ""
}, {
  "id" : 524057,
  "params" : [ "" ],
  "name" : "FREE_SPACE",
  "result" : "OK",
  "error_code" : null,
  "error_or_warn" : null,
  "error_params" : ""
}, {
  "id" : 524058,
  "params" : [ "" ],
  "name" : "OEM_SYSTEM",
  "result" : "OK",
  "error_code" : null,
  "error_or_warn" : null,
  "error_params" : ""
}, {
  "id" : 524059,
  "params" : [ "" ],
```

```

"name" : "DRIVER_FILE",
"result" : "OK",
"error_code" : null,
"error_or_warn" : null,
"error_params" : ""
}, {
  "id" : 524060,
  "params" : [ "" ],
  "name" : "SERVICE",
  "result" : "OK",
  "error_code" : null,
  "error_or_warn" : null,
  "error_params" : ""
}, {
  "id" : 524061,
  "params" : [ "" ],
  "name" : "ACCOUNT_RIGHTS",
  "result" : "OK",
  "error_code" : null,
  "error_or_warn" : 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",
  "hostname" : null,
  "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_or_warn" : null,
  "error_params" : ""
}, {
  "id" : 524039,
  "params" : [ "" ],
  "name" : "CPU",
  "result" : "OK",
  "error_code" : null,
  "error_or_warn" : null,
  "error_params" : ""
}, {
  "id" : 524040,
  "params" : [ "" ],
  "name" : "MEMORY",
  "result" : "OK",
  "error_code" : null,
  "error_or_warn" : null,
  "error_params" : ""
}, {
  "id" : 524041,
  "params" : [ "" ],
  "name" : "PARAVIRTUALIZATION",
  "result" : "OK",
  "error_code" : null,
  "error_or_warn" : null,
  "error_params" : ""
}, {
  "id" : 524042,
  "params" : [ "" ],
  "name" : "FIRMWARE",
  "result" : "OK",
  "error_code" : null,
  "error_or_warn" : null,
  "error_params" : ""
}, {
  "id" : 524043,
  "params" : [ "" ],
  "name" : "BOOT_LOADER",
  "result" : "OK",
  "error_code" : null,
  "error_or_warn" : null,
  "error_params" : ""
}, {
  "id" : 524044,
  "params" : [ "" ],
  "name" : "RSYNC",
  "result" : "OK",
  "error_code" : null,
  "error_or_warn" : null,
  "error_params" : ""
}, {
  "id" : 524045,
  "params" : [ "" ],
  "name" : "RAW_DEVICES",
  "result" : "OK",
  "error_code" : null,
  "error_or_warn" : null,
  "error_params" : ""
}, {
  "id" : 524046,
```

```

"params" : [ "" ],
"name" : "DISK_INFO",
"result" : "OK",
"error_code" : null,
"error_or_warn" : null,
"error_params" : ""
}, {
  "id" : 524047,
  "params" : [ "" ],
  "name" : "PARTITION_STYLE",
  "result" : "OK",
  "error_code" : null,
  "error_or_warn" : null,
  "error_params" : ""
}, {
  "id" : 524048,
  "params" : [ "" ],
  "name" : "FILE_SYSTEM",
  "result" : "OK",
  "error_code" : null,
  "error_or_warn" : null,
  "error_params" : ""
}, {
  "id" : 524049,
  "params" : [ "" ],
  "name" : "LINUX_BLOCK_SUPPORT",
  "result" : "OK",
  "error_code" : null,
  "error_or_warn" : 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",
  "hostname" : null,
  "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",
"hostname" : "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_or_warn" : null,
"error_params" : ""
}, {
"id" : 523971,
"params" : [ "" ],
"name" : "FIRMWARE",
"result" : "OK",
"error_code" : null,
"error_or_warn" : null,
"error_params" : ""
}, {
"id" : 523972,
"params" : [ "" ],
"name" : "CPU",
"result" : "OK",
"error_code" : null,
"error_or_warn" : null,
"error_params" : ""
}, {
"id" : 523973,
"params" : [ "" ],
"name" : "MEMORY",
"result" : "OK",
"error_code" : null,
"error_or_warn" : null,
"error_params" : ""
}, {
"id" : 523974,
"params" : [ "" ],
"name" : "SYSTEM_ROOT",
"result" : "OK",
"error_code" : null,
"error_or_warn" : null,
"error_params" : ""
}, {
"id" : 523975,
"params" : [ "" ],
"name" : "PARTITION_STYLE",
"result" : "OK",
"error_code" : null,
"error_or_warn" : null,
"error_params" : ""
}
```

```

    }, {
      "id" : 523976,
      "params" : [ "" ],
      "name" : "FILE_SYSTEM",
      "result" : "OK",
      "error_code" : null,
      "error_or_warn" : null,
      "error_params" : ""
    }, {
      "id" : 523977,
      "params" : [ "" ],
      "name" : "FREE_SPACE",
      "result" : "OK",
      "error_code" : null,
      "error_or_warn" : null,
      "error_params" : ""
    }, {
      "id" : 523978,
      "params" : [ "" ],
      "name" : "OEM_SYSTEM",
      "result" : "OK",
      "error_code" : null,
      "error_or_warn" : null,
      "error_params" : ""
    }, {
      "id" : 523979,
      "params" : [ "" ],
      "name" : "DRIVER_FILE",
      "result" : "OK",
      "error_code" : null,
      "error_or_warn" : null,
      "error_params" : ""
    }, {
      "id" : 523980,
      "params" : [ "" ],
      "name" : "SERVICE",
      "result" : "OK",
      "error_code" : null,
      "error_or_warn" : null,
      "error_params" : ""
    }, {
      "id" : 523981,
      "params" : [ "" ],
      "name" : "ACCOUNT_RIGHTS",
      "result" : "OK",
      "error_code" : null,
      "error_or_warn" : 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",
  "hostname" : "sms-console",
  "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",
  "hostname": "sms-console",
  "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",
  "hostname": "sms-console",
  "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",
  "hostname": null,
  "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_or_warn": {
      "error_code": "SMS.6504",
      "link": "xxxx"
    },
    "error_params": ""
  }, {
    "id": 523795,
    "params": [ "" ],
    "name": "CPU",
    "result": "OK",
    "error_code": null,
    "error_or_warn": null,
    "error_params": ""
  }, {
    "id": 523796,
    "params": [ "" ],
    "name": "MEMORY",
    "result": "OK",
    "error_code": null,
    "error_or_warn": null,
    "error_params": ""
  }, {
    "id": 523797,
    "params": [ "" ],
    "name": "PARAVIRTUALIZATION",
    "result": "OK",
    "error_code": null,
    "error_or_warn": null,
    "error_params": ""
  } ]
} ]

```

```

    }, {
      "id" : 523798,
      "params" : [ "" ],
      "name" : "FIRMWARE",
      "result" : "OK",
      "error_code" : null,
      "error_or_warn" : null,
      "error_params" : ""
    }, {
      "id" : 523799,
      "params" : [ "" ],
      "name" : "BOOT_LOADER",
      "result" : "OK",
      "error_code" : null,
      "error_or_warn" : null,
      "error_params" : ""
    }, {
      "id" : 523800,
      "params" : [ "" ],
      "name" : "RSYNC",
      "result" : "OK",
      "error_code" : null,
      "error_or_warn" : null,
      "error_params" : ""
    }, {
      "id" : 523801,
      "params" : [ "" ],
      "name" : "RAW_DEVICES",
      "result" : "OK",
      "error_code" : null,
      "error_or_warn" : null,
      "error_params" : ""
    }, {
      "id" : 523802,
      "params" : [ "" ],
      "name" : "DISK_INFO",
      "result" : "OK",
      "error_code" : null,
      "error_or_warn" : null,
      "error_params" : ""
    }, {
      "id" : 523803,
      "params" : [ "" ],
      "name" : "PARTITION_STYLE",
      "result" : "OK",
      "error_code" : null,
      "error_or_warn" : null,
      "error_params" : ""
    }, {
      "id" : 523804,
      "params" : [ "" ],
      "name" : "FILE_SYSTEM",
      "result" : "OK",
      "error_code" : null,
      "error_or_warn" : null,
      "error_params" : ""
    }, {
      "id" : 523805,
      "params" : [ "" ],
      "name" : "LINUX_BLOCK_SUPPORT",
      "result" : "OK",
      "error_code" : null,
      "error_or_warn" : 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-e904aafbba70",
  "ip": "192.168.0.65",
  "name": "smsc-test",
  "hostname": null,
  "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": "smsc-test"
    }
  },
  "log_collect_status": "INIT",
  "exist_server": false,
  "use_public_ip": true,
  "clone_server": null,
  "remain_seconds": null
},
"checks": [ {
  "id": 523686,
  "params": [ "" ],
  "name": "OS_VERSION",
  "result": "OK",
  "error_code": null,
  "error_or_warn": null,
  "error_params": ""
}, {
  "id": 523687,
  "params": [ "" ],
  "name": "CPU",
  "result": "OK",
  "error_code": null,
  "error_or_warn": null,
  "error_params": ""
}, {
  "id": 523688,
  "params": [ "" ],

```

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

```

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

```

Status Codes

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

Error Codes

See [Error Codes](#).

4.1.4 Deleting Source Server Records in Batches

Function

This API is used to delete source server records in batches. Once the record of a source server is deleted, you can add a new record for the source server on the SMS console only by restarting the Agent installed on the source server.

URI

POST /v3/sources/delete

Request

Table 4-26 Request header parameter

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

Table 4-27 Request body parameters

Parameter	Mandatory	Type	Description
ids	Yes	Array of strings	Specifies the IDs of all source servers to be deleted.

Response

None

Example Request

Delete 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

See [Error Codes](#).

4.1.5 Modifying the Name of a Source Server with a Specified ID

Function

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

URI

PUT /v3/sources/{source_id}

Table 4-28 Path parameter

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

Request

Table 4-29 Request header parameter

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

Table 4-30 Request body parameters

Parameter	Mandatory	Type	Description
name	No	String	Specifies the new name of the source server. Minimum length: 0 characters Maximum length: 255 characters
migprojectid	No	String	Specifies the ID of the migration project to which the source server belongs after the modification. Minimum length: 0 characters Maximum length: 255 characters
disks	No	Array of PutDisk objects	Specifies the disks on the source server.
volume_group_s	No	Array of PutVolumeGroups objects	Specifies the volume groups on the source server

Table 4-31 PutDisk field description

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

Table 4-32 PutVolume field description

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

Table 4-33 PutVolumeGroups field description

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

Table 4-34 PutLogicalVolume field description

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

Response

None

Example Request

Change the name of the source server from **dcdb339-b02d-4578-95a1-9c9c547dxxxx** to **abcd**.

```
PUT https://{endpoint}/v3/sources/dcdb339-b02d-4578-95a1-9c9c547d82a7
{
  "name" : "abcd"
}
```

Example Response

None

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.1.6 Updating the Migration Task Status of a Source Server

Function

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

URI

PUT /v3/sources/{source_id}/changestate

Table 4-35 Path parameter

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

Request

Table 4-36 Request header parameter

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

Table 4-37 Request body parameters

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

Response

None

Example Request

Change the migration status of the source server with ID **dcdbe339-b02d-4578-95a1-9c9c547dxxxx**.

PUT <https://{endpoint}/v3/sources/dcdbe339-b02d-4578-95a1-9c9c547d82a7/changestate>

Example Response

None

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.1.7 Deleting a Source Server Record with a Specified ID

Function

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

URI

DELETE /v3/sources/{source_id}

Table 4-38 Path parameter

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

Request

Table 4-39 Request header parameter

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

Response

None

Example Request

Delete the 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

See [Error Codes](#).

4.1.8 Querying a Source Server with a Specified ID

Function

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

URI

GET /v3/sources/{source_id}

Table 4-40 Path parameter

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

Request

Table 4-41 Request header parameter

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

Response

Status code: 200

Table 4-42 Response body parameters

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

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

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

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

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

Table 4-43 InitTargetServer field description

Parameter	Type	Description
disks	Array of DiskIntargetServer objects	Specifies the disk information of the target server.

Table 4-44 DiskIntargetServer field description

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

Table 4-45 TaskByServerSource

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

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

Table 4-46 TargetServerByld field description

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

Table 4-47 CloneServer field description

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

Parameter	Type	Description
clone_error	String	Specifies the error message returned for cloning failure. Minimum length: 0 characters Maximum length: 255 characters
clone_state	String	Specifies the cloning status. Minimum length: 0 characters Maximum length: 255 characters
error_msg	String	Specifies the error message returned for cloning failure. Minimum length: 0 characters Maximum length: 1,024 characters

Table 4-48 ServerDisk field description

Parameter	Type	Description
name	String	Specifies the disk name. Minimum length: 0 characters Maximum length: 255 characters
partition_style	String	Specifies the disk partition type. This parameter is mandatory for source server registration. The value can be: <ul style="list-style-type: none"> • MBR • GPT
device_use	String	Specifies the disk type. The value can be: <ul style="list-style-type: none"> • BOOT • OS
size	Long	Specifies the disk size, in bytes. Minimum value: 0 Maximum value: 9223372036854775807
used_size	Long	Specifies the used disk space, in bytes. Minimum value: 0 Maximum value: 9223372036854775807
physical_volumes	Array of PhysicalVolume objects	Specifies the physical partition information of the disk.

Parameter	Type	Description
os_disk	Boolean	Specifies whether the disk is the system disk.
relation_name	String	Specifies the name of the corresponding disk on the target server running Linux. Minimum length: 0 characters Maximum length: 255 characters

Table 4-49 PhysicalVolume field description

Parameter	Type	Description
device_use	String	Specifies the partition type. The value can be NORMAL , BOOT , or OS . Minimum length: 0 characters Maximum length: 255 characters
file_system	String	Specifies the file system type. Minimum length: 0 characters Maximum length: 255 characters
index	Integer	Specifies the serial number of the volume. Minimum value: 0 Maximum value: 2147483647
mount_point	String	Specifies the mount point. Minimum length: 0 characters Maximum length: 255 characters
name	String	Specifies 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	Specifies the volume size. Minimum value: 0 Maximum value: 9223372036854775807
used_size	Long	Specifies the used space. Minimum value: 0 Maximum value: 9223372036854775807
uuid	String	Specifies the GUID of the volume, which can be obtained from the source server. Minimum length: 0 characters Maximum length: 255 characters

Parameter	Type	Description
size_per_cluster	Integer	Specifies the size of each cluster. Minimum value: 0 Maximum value: 2147483647

Table 4-50 VolumeGroups field description

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

Table 4-51 LogicalVolumes field description

Parameter	Type	Description
block_count	Integer	Specifies the number of blocks. Minimum value: 0 Maximum value: 4294967296 Default value: 0
block_size	Long	Specifies the block size. Minimum value: 0 Maximum value: 1048576 Default value: 0

Parameter	Type	Description
file_system	String	Specifies the file system. Minimum length: 0 characters Maximum length: 255 characters
inode_size	Integer	Specifies the number of inodes. Minimum value: 0 Maximum value: 4294967296
mount_point	String	Specifies the mount point. Minimum length: 0 characters Maximum length: 256 characters
name	String	Specifies the volume group name. Minimum length: 0 characters Maximum length: 1,024 characters
size	Long	Specifies the volume size. Minimum value: 0 Maximum value: 9223372036854775807
used_size	Long	Specifies the used space. Minimum value: 0 Maximum value: 9223372036854775807
free_size	Long	Specifies the available space. Minimum value: 0 Maximum value: 9223372036854775807

Table 4-52 BtrfsFileSystem field description

Parameter	Type	Description
name	String	Specifies the file system name. Minimum length: 0 characters Maximum length: 255 characters
label	String	Specifies the file system tag. If no tag exists, the value is an empty string. Minimum length: 0 characters Maximum length: 255 characters
uuid	String	Specifies the UUID of the file system. Minimum length: 0 characters Maximum length: 255 characters

Parameter	Type	Description
device	String	Specifies the device name in the Btrfs. Minimum length: 0 characters Maximum length: 255 characters
size	Long	Specifies the space occupied by the file system. Minimum value: 0 Maximum value: 9223372036854775807
nodesize	Long	Specifies the size of the Btrfs node. Minimum value: 0 Maximum value: 9223372036854775807
sectorsize	Integer	Specifies the sector size. Minimum value: 0 Maximum value: 2147483647
data_profile	String	Specifies the data profile (RAD). Minimum length: 0 characters Maximum length: 255 characters
system_profile	String	Specifies the file system profile (RAD). Minimum length: 0 characters Maximum length: 255 characters
metadata_profile	String	Specifies the metadata profile (RAD). Minimum length: 0 characters Maximum length: 255 characters
global_reserve_1	String	Specifies the Btrfs file system information. Minimum length: 0 characters Maximum length: 255 characters
g_vol_used_size	Long	Specifies the used space of the Btrfs volume. Minimum value: 0 Maximum value: 9223372036854775807
default_subvol_id	String	Specifies the ID of the default subvolume. Minimum length: 0 characters Maximum length: 255 characters
default_subvol_name	String	Specifies the name of the default subvolume. Minimum length: 0 characters Maximum length: 255 characters

Parameter	Type	Description
default_subvol_mountpath	String	Specifies the mount path of the default subvolume or Btrfs file system. Minimum length: 0 characters Maximum length: 255 characters
subvolumn	Array of BtrfsSubvolumn objects	Specifies the subvolume information.

Table 4-53 BtrfsFileSystem field description

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

Table 4-54 NetWork field description

Parameter	Type	Description
name	String	Specifies the NIC name. Minimum length: 0 characters Maximum length: 255 characters

Parameter	Type	Description
ip	String	Specifies the IP address bound to the NIC. Minimum length: 0 characters Maximum length: 255 characters
netmask	String	Specifies the subnet mask. Minimum length: 0 characters Maximum length: 255 characters
gateway	String	Specifies the gateway. Minimum length: 0 characters Maximum length: 255 characters
mtu	Integer	Specifies the NIC MTU. This parameter is mandatory for Linux. Minimum value: 0 Maximum value: 2147483647
mac	String	Specifies the MAC address. Minimum length: 0 characters Maximum length: 255 characters
id	String	Specifies the database ID. Minimum length: 0 characters Maximum length: 255 characters

Table 4-55 NetWork field description

Parameter	Type	Description
id	Long	Specifies the check item ID. Minimum value: 0 Maximum value: 9223372036854775807
params	Array of strings	Parameter
name	String	Specifies the check item name. Minimum length: 0 characters Maximum length: 255 characters

Parameter	Type	Description
result	String	Specifies the check result. Minimum length: 0 characters Maximum length: 255 characters The value can be: <ul style="list-style-type: none"> • OK • WARN • ERROR
error_code	String	Specifies the returned error code. Minimum length: 0 characters Maximum length: 255 characters
error_params	String	Specifies the parameters that failed the check. Minimum length: 0 characters Maximum length: 255 characters

Example Request

Query information about the source server whose ID is **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

See [Error Codes](#).

4.1.9 Obtaining Source Server Overview

Function

This API is used to obtain server overview.

URI

GET /v3/sources/overview

Request

Table 4-56 Request header parameter

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

Response

Status code: 200

Table 4-57 Response body parameters

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

Example Request

Query the overview of servers.

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

Example Response

Status code: 200

OK

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

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.1.10 Updating Disk Information

Function

This API is used to update the disk information of a source server. After the disk information of the source server is updated by calling this API, the original disk information will be deleted.

URI

PUT /v3/sources/{source_id}/diskinfo

Table 4-58 Path parameter

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

Request

Table 4-59 Request header parameter

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

Table 4-60 Request body parameters

Parameter	Mandatory	Type	Description
disks	No	Array of ServerDisk objects	Specifies the updated disk information.
volumegroups	No	Array of VolumeGroups objects	Specifies the volume group information to be updated.
btrfs_list	No	Array of BtrfsFilesystem objects	Specifies the Btrfs information to be updated.

Table 4-61 ServerDisk

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

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

Table 4-62 PhysicalVolume

Parameter	Mandatory	Type	Description
device_use	No	String	Specifies the partition type. The value can be NORMAL , BOOT , or OS . Minimum length: 0 characters Maximum length: 255 characters
file_system	No	String	Specifies the file system type. Minimum length: 0 characters Maximum length: 255 characters

Parameter	Mandatory	Type	Description
index	No	Integer	Specifies the serial number of the volume. Minimum value: 0 Maximum value: 2147483647
mount_point	No	String	Specifies the mount point. Minimum length: 0 characters Maximum length: 255 characters
name	No	String	Specifies 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	Specifies the volume size. Minimum value: 0 Maximum value: 9223372036854775807
used_size	No	Long	Specifies the used space. Minimum value: 0 Maximum value: 9223372036854775807
uuid	No	String	Specifies the GUID of the volume, which can be obtained from the source server. Minimum length: 0 characters Maximum length: 255 characters
size_per_cluster	No	Integer	Specifies the size of each cluster. Minimum value: 0 Maximum value: 2147483647

Table 4-63 VolumeGroups

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

Table 4-64 LogicalVolumes field description

Parameter	Mandatory	Type	Description
block_count	No	Integer	Specifies the number of blocks. Minimum value: 0 Maximum value: 4294967296 Default value: 0
block_size	No	Long	Specifies the block size. Minimum value: 0 Maximum value: 1048576 Default value: 0

Parameter	Mandatory	Type	Description
file_system	Yes	String	Specifies the file system. Minimum length: 0 characters Maximum length: 255 characters
inode_size	Yes	Integer	Specifies the number of inodes. Minimum value: 0 Maximum value: 4294967296
mount_point	Yes	String	Specifies the mount point. Minimum length: 0 characters Maximum length: 256 characters
name	Yes	String	Specifies the volume group name. Minimum length: 0 characters Maximum length: 1,024 characters
size	Yes	Long	Specifies the volume size. Minimum value: 0 Maximum value: 9223372036854775807
used_size	Yes	Long	Specifies the used space. Minimum value: 0 Maximum value: 9223372036854775807
free_size	Yes	Long	Specifies the available space. Minimum value: 0 Maximum value: 9223372036854775807

Table 4-65 BtrfsFileSystem field description

Parameter	Mandatory	Type	Description
name	Yes	String	Specifies the file system name. Minimum length: 0 characters Maximum length: 255 characters

Parameter	Mandatory	Type	Description
label	Yes	String	Specifies 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	Specifies the UUID of the file system. Minimum length: 0 characters Maximum length: 255 characters
device	Yes	String	Specifies the device name in the Btrfs. Minimum length: 0 characters Maximum length: 255 characters
size	Yes	Long	Specifies the space occupied by the file system. Minimum value: 0 Maximum value: 9223372036854775807
nodesize	Yes	Long	Specifies the size of the Btrfs node. Minimum value: 0 Maximum value: 9223372036854775807
sectorsize	Yes	Integer	Specifies the sector size. Minimum value: 0 Maximum value: 2147483647
data_profile	Yes	String	Specifies the data profile (RAD). Minimum length: 0 characters Maximum length: 255 characters
system_profile	Yes	String	Specifies the file system profile (RAD). Minimum length: 0 characters Maximum length: 255 characters

Parameter	Mandatory	Type	Description
metadata_profile	Yes	String	Specifies the metadata profile (RAD). Minimum length: 0 characters Maximum length: 255 characters
global_reserve1	Yes	String	Specifies the Btrfs file system information. Minimum length: 0 characters Maximum length: 255 characters
g_vol_used_size	Yes	Long	Specifies the used space of the Btrfs volume. Minimum value: 0 Maximum value: 9223372036854775807
default_subvol_id	Yes	String	Specifies the ID of the default subvolume. Minimum length: 0 characters Maximum length: 255 characters
default_subvol_name	Yes	String	Specifies the name of the default subvolume. Minimum length: 0 characters Maximum length: 255 characters
default_subvol_mountpath	Yes	String	Specifies the mount path of the default subvolume or Btrfs file system. Minimum length: 0 characters Maximum length: 255 characters
subvolumn	Yes	Array of BtrfsSubvolumn objects	Specifies the subvolume information.

Table 4-66 BtrfsSubvolumn field description

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

Response

None

Example Request

Update the disk information of a source 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_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
}
}
}
}
```

Example Response

None

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.2 Task Management

4.2.1 Creating a Migration Task

Function

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

URI

POST /v3/tasks

Request

Table 4-67 Request header parameter

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

Table 4-68 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Specifies the task name. Minimum length: 0 characters Maximum length: 255 characters
type	Yes	String	Specifies the task type. The value can be: <ul style="list-style-type: none"> • MIGRATE_FILE • MIGRATE_BLOCK
start_target_server	No	Boolean	Specifies whether to start the target server after the migration. Default value: true
os_type	Yes	String	Specifies the OS type. Minimum length: 0 characters Maximum length: 255 characters

Parameter	Mandatory	Type	Description
source_server	Yes	SourceServer ByTask object	Specifies the source server information.
target_server	Yes	TargetServer ByTask object	Specifies the target server information.
migration_ip	No	String	Specifies 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	Specifies the region name. Minimum length: 0 characters Maximum length: 255 characters
region_id	Yes	String	region id Minimum length: 0 characters Maximum length: 255 characters
project_name	Yes	String	Specifies the project name. Minimum length: 0 characters Maximum length: 255 characters
project_id	Yes	String	Specifies the project ID. Minimum length: 0 characters Maximum length: 255 characters
vm_template_id	No	String	Specifies the template used to create the target server automatically. Minimum length: 0 characters Maximum length: 255 characters
use_public_ip	No	Boolean	Specifies whether to use a public IP address for migration. Default value: true

Parameter	Mandatory	Type	Description
syncing	No	Boolean	Specifies whether to perform a continuous synchronization after the first replication. If this parameter is not specified, the default value false is used. Default value: false

Table 4-69 SourceServerByTask field description

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

Table 4-70 TargetServerByTask field description

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

Table 4-71 BtrfsFileSystem field description

Parameter	Mandatory	Type	Description
name	Yes	String	Specifies the file system name. Minimum length: 0 characters Maximum length: 255 characters
label	Yes	String	Specifies 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	Specifies the UUID of the file system. Minimum length: 0 characters Maximum length: 255 characters
device	Yes	String	Specifies the device name in the Btrfs. Minimum length: 0 characters Maximum length: 255 characters
size	Yes	Long	Specifies the space occupied by the file system. Minimum value: 0 Maximum value: 9223372036854775807
nodesize	Yes	Long	Specifies the size of the Btrfs node. Minimum value: 0 Maximum value: 9223372036854775807
sectorsize	Yes	Integer	Specifies the sector size. Minimum value: 0 Maximum value: 2147483647
data_profile	Yes	String	Specifies the data profile (RAD). Minimum length: 0 characters Maximum length: 255 characters

Parameter	Mandatory	Type	Description
system_profile	Yes	String	Specifies the file system profile (RAD). Minimum length: 0 characters Maximum length: 255 characters
metadata_profile	Yes	String	Specifies the metadata profile (RAD). Minimum length: 0 characters Maximum length: 255 characters
global_reserve1	Yes	String	Specifies the Btrfs file system information. Minimum length: 0 characters Maximum length: 255 characters
g_vol_used_size	Yes	Long	Specifies the used space of the Btrfs volume. Minimum value: 0 Maximum value: 9223372036854775807
default_subvol_id	Yes	String	Specifies the ID of the default subvolume. Minimum length: 0 characters Maximum length: 255 characters
default_subvol_name	Yes	String	Specifies the name of the default subvolume. Minimum length: 0 characters Maximum length: 255 characters
default_subvol_mountpath	Yes	String	Specifies the mount path of the default subvolume or Btrfs file system. Minimum length: 0 characters Maximum length: 255 characters
subvolumn	Yes	Array of BtrfsSubvolumn objects	Specifies the subvolume information.

Table 4-72 BtrfsSubvolumn field description

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

Table 4-73 TargetDisks field description

Parameter	Mandatory	Type	Description
device_use	No	String	Specifies the disk type. Default value: NORMAL The value can be: <ul style="list-style-type: none"> ● NORMAL ● OS ● BOOT

Parameter	Mandatory	Type	Description
disk_id	No	String	Specifies 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	Specifies the disk name. Set this parameter to Disk X based on the disk sequence. Minimum length: 0 characters Maximum length: 255 characters
physical_volumes	Yes	Array of PhysicalVolumes objects	Specifies the physical volume information.
size	Yes	Long	Specifies the volume size. Minimum value: 0 Maximum value: 9223372036854775807
used_size	Yes	Long	Specifies the used space. Minimum value: 0 Maximum value: 9223372036854775807

Table 4-74 PhysicalVolumes field description

Parameter	Mandatory	Type	Description
device_use	No	String	Specifies the partition type. The value can be NORMAL , BOOT , or OS . Minimum length: 0 characters Maximum length: 255 characters
file_system	No	String	Specifies the file system type. Minimum length: 0 characters Maximum length: 255 characters

Parameter	Mandatory	Type	Description
index	No	Integer	Specifies the serial number of the volume. Minimum value: 0 Maximum value: 2147483647
mount_point	No	String	Specifies the mount point. Minimum length: 0 characters Maximum length: 255 characters
name	No	String	Specifies 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	Specifies the volume size. Minimum value: 0 Maximum value: 9223372036854775807
used_size	No	Long	Specifies the used space. Minimum value: 0 Maximum value: 9223372036854775807
uuid	No	String	Specifies the GUID of the volume, which can be obtained from the source server. Minimum length: 0 characters Maximum length: 255 characters

Table 4-75 VolumeGroups field description

Parameter	Mandatory	Type	Description
components	No	String	Specifies the physical volume information. Minimum length: 0 characters Maximum length: 255 characters

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

Table 4-76 LogicalVolumes field description

Parameter	Mandatory	Type	Description
block_count	No	Integer	Specifies the number of blocks. Minimum value: 0 Maximum value: 4294967296 Default value: 0
block_size	No	Long	Specifies the block size. Minimum value: 0 Maximum value: 1048576 Default value: 0
file_system	Yes	String	Specifies the file system. Minimum length: 0 characters Maximum length: 255 characters
inode_size	Yes	Integer	Specifies the number of inodes. Minimum value: 0 Maximum value: 4294967296

Parameter	Mandatory	Type	Description
mount_point	Yes	String	Specifies the mount point. Minimum length: 0 characters Maximum length: 256 characters
name	Yes	String	Specifies the volume group name. Minimum length: 0 characters Maximum length: 1,024 characters
size	Yes	Long	Specifies the volume size. Minimum value: 0 Maximum value: 9223372036854775807
used_size	Yes	Long	Specifies the used space. Minimum value: 0 Maximum value: 9223372036854775807
free_size	Yes	Long	Specifies the available space. Minimum value: 0 Maximum value: 9223372036854775807

Response

Status code: 200

Table 4-77 Response body parameters

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

Example Request

Create a migration task during which 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",
"regionName": "CN North-Ulanqab203",
"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-chengxiao",
  "disks" : [ {
    "name" : "/dev/vda",
    "disk_id" : "76a59f9f-5901-4913-a9a5-f6742baa308c",
    "size" : 42949672960,
    "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" : [ ],
  "btrfs_list" : [ ]
}
}
```

Example Response

Status code: 200

OK

```
{
  "id" : "8abda8635e09d185015e09d188dd0001xx"
}
```

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.2.2 Listing Migration Tasks

Function

After the target server is configured, SMS automatically creates a migration task. This API is used to query the migration task list.

URI

GET /v3/tasks

Table 4-78 Query parameters

Parameter	Mandatory	Type	Description
state	No	String	Specifies the migration task status. The value can be: <ul style="list-style-type: none"> • READY • RUNNING • SYNCING • MIGRATE_SUCCESS • MIGRATE_FAIL • ABORTING • ABORT • DELETING • SYNC_F_ROLLBACKING • SYNC_F_ROLLBACK_SUCCESS
name	No	String	Specifies the task name. Minimum length: 0 characters Maximum length: 255 characters
id	No	String	Specifies the task ID. Minimum length: 0 characters Maximum length: 255 characters
source_server_id	No	String	Specifies the source server ID. Minimum length: 0 characters Maximum length: 255 characters

Parameter	Mandatory	Type	Description
limit	No	Integer	Specifies the number of tasks recorded on each page. Minimum value: 0 Maximum value: 200 Default value: 100
offset	No	Integer	Specifies the offset. Minimum value: 0 Maximum value: 65535 Default value: 0
enterprise_project_id	No	String	Specifies the ID of the enterprise project to be queried. Minimum length: 0 characters Maximum length: 255 characters

Request

Table 4-79 Request header parameter

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

Response

Status code: 200

Table 4-80 Response body parameters

Parameter	Type	Description
count	Integer	Specifies the number of tasks that meet the search criteria, which is not affected by pagination. Minimum value: 0 Maximum value: 2147483647
tasks	Array of TasksResponseBody objects	Specifies the information about the queried tasks.

Table 4-81 **TasksResponseBody** field description

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

Parameter	Type	Description
state	String	Specifies the task status. Minimum length: 0 characters Maximum length: 255 characters
estimate_complete_time	Long	Specifies the estimated completion time. Minimum value: 0 Maximum value: 9223372036854775807
create_date	Long	Specifies the task creation time. Minimum value: 0 Maximum value: 9223372036854775807
priority	Integer	Specifies the migration process priority. Minimum value: 0 Maximum value: 2 The value can be: <ul style="list-style-type: none"> • 0 • 1 • 2
speed_limit	Integer	Specifies the migration rate limit.
migrate_speed	Double	Specifies the migration rate, in MB/s. Minimum value: 0 Maximum value: 10000
compress_rate	Double	Specifies the compression rate. Minimum value: 0 Maximum value: 10000
start_target_server	Boolean	Specifies whether to start the target server after the migration is complete. The value can be true (start) or false (stop). Default value: false
error_json	String	Specifies the error message. Minimum length: 0 characters Maximum length: 1,024 characters
total_time	Long	Specifies the task duration. Minimum value: 0 Maximum value: 9223372036854775807

Parameter	Type	Description
migration_ip	String	Specifies the IP address of the target server. If you use a public network for migration, enter the EIP bound to the target server. If you use a private line for migration, enter a private IP address of the target server. Minimum length: 0 characters Maximum length: 255 characters
sub_tasks	Array of SubTaskAssociatedWithTask objects	Specifies the information about subtasks associated with the migration task.
source_server	SourceServerAssociatedWithTask object	Specifies the information about the source server associated with the migration task.
enterprise_project_id	String	Specifies the migration project ID. Minimum length: 0 characters Maximum length: 255 characters
target_server	TargetServerAssociatedWithTask object	Specifies the information about the target server associated with the migration task.
log_collect_status	String	Specifies the log collection status. The value can be: <ul style="list-style-type: none"> • INIT • TELL_AGENT_TO_COLLECT • WAIT_AGENT_COLLECT_ACK • AGENT_COLLECT_FAIL • AGENT_COLLECT_SUCCESS • WAIT_SERVER_COLLECT • SERVER_COLLECT_FAIL • SERVER_COLLECT_SUCCESS • TELL_AGENT_RESET_ACL • WAIT_AGENT_RESET_ACL_ACK
clone_server	CloneServerBrief object	Specifies the information about the cloned server.
syncing	Boolean	Specifies whether to enable synchronization.

Table 4-82 SubTaskAssociatedWithTask field description

Parameter	Type	Description
id	Long	Specifies the subtask ID. Minimum value: 0 Maximum value: 100
name	String	Specifies the subtask name. Minimum length: 0 characters Maximum length: 255 characters
progress	Integer	Specifies the progress of the subtask. The value is an integer ranging from 0 to 100. Minimum value: 0 Maximum value: 100
start_date	Long	Specifies the start time of the subtask. Minimum value: 0 Maximum value: 9223372036854775807
end_date	Long	Specifies the end time of the subtask. If the subtask is not complete, this parameter is left blank. Minimum value: 0 Maximum value: 9223372036854775807
process_trace	String	Detailed progress of the migration or synchronization Minimum length: 0 characters Maximum length: 2048 characters

Table 4-83 SourceServerAssociatedWithTask

Parameter	Type	Description
id	String	Specifies the ID of the source server in the SMS database. Minimum length: 0 characters Maximum length: 255 characters
ip	String	Specifies 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	Specifies the name of the source server displayed on the SMS console. Minimum length: 0 characters Maximum length: 255 characters
os_type	String	Specifies the OS type of the source server. This parameter is mandatory for registering the source server with SMS and optional for updating the information about the source server. Minimum length: 0 characters Maximum length: 255 characters The value can be: <ul style="list-style-type: none"> • WINDOWS • LINUX
os_version	String	Specifies the OS version. Minimum length: 0 characters Maximum length: 255 characters
oem_system	Boolean	Specifies whether the OS is an OEM OS (Windows).
state	String	Specifies the source server status. The value can be: <ul style="list-style-type: none"> • unavailable • waiting • initialize • replicate • syncing • stopping • stopped • deleting • error • cloning • testing • finished

Table 4-84 TargetServerAssociatedWithTask

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

Table 4-85 CloneServerBrief field description

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

Example Request

Query the list of 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",
    "connected" : true,
    "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",
    "connected" : true,
    "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",
  "connected" : false,
  "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

See [Error Codes](#).

4.2.3 Batch Deleting Migration Tasks

Function

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

Constraints

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

URI

POST /v3/tasks/delete

Request

Table 4-86 Request header parameter

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

Table 4-87 Request body parameter

Parameter	Mandatory	Type	Description
ids	Yes	Array of strings	Specifies the IDs of the tasks to be deleted.

Response

None

Example Request

Delete 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

See [Error Codes](#).

4.2.4 Deleting a Migration Task with a Specified ID

Function

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

Constraints

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

URI

DELETE /v3/tasks/{task_id}

Table 4-88 Path parameter

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

Request

Table 4-89 Request header parameter

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

Response

None

Example Request

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

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

Example Response

None

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.2.5 Querying a Migration Task with a Specified ID

Function

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

URI

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

Table 4-90 Path parameter

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

Request

Table 4-91 Request header parameter

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

Response

Status code: 200

Table 4-92 Response body parameters

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

Parameter	Type	Description
os_type	String	Specifies the OS type. This parameter is mandatory for creating a task and optional for updating a task. The value can be: <ul style="list-style-type: none"> • WINDOWS • LINUX
id	String	Specifies the migration task ID. Minimum length: 0 characters Maximum length: 255 characters
priority	Integer	Specifies the migration process priority. 0 : low 1 : standard (default) 2 : high Minimum value: 0 Maximum value: 2 The value can be: <ul style="list-style-type: none"> • 0 • 1 • 2
region_id	String	Specifies the ID of the region where the target server is located. Minimum length: 0 characters Maximum length: 255 characters
start_target_server	Boolean	Specifies whether to start the target server after the migration. true : indicates that the target server will be launched after the migration. false : indicates that the target server will be stopped after the migration. Default value: true
enterprise_project_id	String	Specifies the enterprise project ID. Minimum length: 1 character Maximum length: 255 characters

Parameter	Type	Description
migration_ip	String	Specifies the IP address of the target server. Enter the EIP of the target server if the migration network type is Internet . Enter the private IP address the target server if the migration network type is Direct Connect or VPN . Minimum length: 0 characters Maximum length: 255 characters
region_name	String	Specifies the name of the region where the target server is located. Minimum length: 0 characters Maximum length: 255 characters
project_name	String	Specifies the name of the project to which the target server belongs. Minimum length: 0 characters Maximum length: 255 characters
project_id	String	Specifies the ID of the project to which the target server belongs. Minimum length: 0 characters Maximum length: 255 characters
vm_template_id	String	Specifies the template ID. Minimum length: 0 characters Maximum length: 255 characters
source_server	SourceServer object	Specifies the information about the source server in the migration task.
target_server	TaskTargetServer object	Specifies the information about the target server in the migration task.
state	String	Specifies the task status. Minimum length: 0 characters Maximum length: 255 characters
estimate_completion_time	Long	Specifies the estimated completion time. Minimum value: 0 Maximum value: 9223372036854775807
connected	Boolean	Specifies the connection status.
create_date	Long	Specifies the task creation time. Minimum value: 0 Maximum value: 9223372036854775807

Parameter	Type	Description
start_date	Long	Specifies the task start time. Minimum value: 0 Maximum value: 9223372036854775807
finish_date	Long	Specifies the task end time. Minimum value: 0 Maximum value: 9223372036854775807
migrate_speed	Double	Specifies the migration rate, in MB/s. Minimum value: 0 Maximum value: 10000
compress_rate	Double	Specifies the compression rate. Minimum value: 0 Maximum value: 10000
error_json	String	Specifies the error message. Minimum length: 0 characters Maximum length: 1,024 characters
total_time	Long	Specifies the task duration. Minimum value: 0 Maximum value: 9223372036854775807
float_ip	String	Retain this parameter temporarily to ensure the compatibility with the SMS-Agent of the earlier version. Minimum length: 0 characters Maximum length: 255 characters
remain_seconds	Long	Specifies the remaining migration time in seconds. Minimum value: 0 Maximum value: 9223372036854775807
target_snapshot_id	String	Specifies the ID of the snapshot for the target server. Minimum length: 0 characters Maximum length: 255 characters
clone_server	CloneServer object	Specifies the information about the cloned server.
sub_tasks	Array of SubTask objects	Specifies the list of subtasks contained in the migration task.

Table 4-93 SourceServer

Parameter	Type	Description
id	String	Specifies the ID of the source server in the SMS database. Minimum length: 0 characters Maximum length: 255 characters
ip	String	Specifies 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	Specifies the name of the source server displayed on the SMS console. Minimum length: 0 characters Maximum length: 255 characters
hostname	String	Specifies the host name of the source server. This parameter is mandatory for registering the source server with SMS and optional for updating the information about the source server. Minimum length: 0 characters Maximum length: 255 characters
os_type	String	Specifies the OS type of the source server. This parameter is mandatory for registering the source server with SMS and optional for updating the information about the source server. Minimum length: 0 characters Maximum length: 255 characters The value can be: <ul style="list-style-type: none"> ● WINDOWS ● LINUX
os_version	String	Specifies the OS version. Minimum length: 0 characters Maximum length: 255 characters

Parameter	Type	Description
firmware	String	Specifies the boot mode. Minimum length: 0 characters Maximum length: 255 characters The value can be: <ul style="list-style-type: none"> • BIOS • UEFI
cpu_quantity	Integer	Specifies the number of CPUs. Minimum value: 0 Maximum value: 65535
memory	Long	Specifies the memory size (MB). Minimum value: 0 Maximum value: 9223372036854775807
disks	Array of ServerDisk objects	Specifies the disk information of the source server.
btrfs_list	Array of BtrfsFileSystem objects	Specifies the Btrfs information on the source server. This parameter is mandatory for Linux. If no Btrfs exists on the source server, an empty array will be returned.
networks	Array of NetWork objects	Specifies the NIC information of the source server.
domain_id	String	Specifies the domain ID of a tenant. Minimum length: 0 characters Maximum length: 255 characters
has_rsync	Boolean	Specifies whether rsync is installed. This parameter is mandatory for Linux.
paravirtualization	Boolean	Specifies whether the source server is paravirtualized. This parameter is mandatory for Linux.
raw_devices	String	Specifies the list of raw devices. This parameter is mandatory for Linux. Minimum length: 0 characters Maximum length: 255 characters
driver_files	Boolean	Specifies whether any driver files are missing. This parameter is mandatory for Windows.
system_services	Boolean	Specifies whether there are abnormal services. This parameter is mandatory for Windows.

Parameter	Type	Description
account_rights	Boolean	Specifies whether the account has the required permissions. This parameter is mandatory for Windows.
boot_loader	String	Specifies the system boot mode. This parameter is mandatory for Linux. The value can be: <ul style="list-style-type: none"> • GRUB • LILO
system_dir	String	Specifies the system directory. This parameter is mandatory for Windows. Minimum length: 0 characters Maximum length: 255 characters
volume_groups	Array of VolumeGroups objects	This parameter is mandatory for Linux. If there is no volume group, remain an empty array [].
agent_version	String	Specifies the Agent version. Minimum length: 0 characters Maximum length: 255 characters

Table 4-94 ServerDisk field description

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

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

Table 4-95 PhysicalVolume field description

Parameter	Type	Description
device_use	String	Specifies the partition type. The value can be NORMAL , BOOT , or OS . Minimum length: 0 characters Maximum length: 255 characters
file_system	String	Specifies the file system type. Minimum length: 0 characters Maximum length: 255 characters
index	Integer	Specifies the serial number of the volume. Minimum value: 0 Maximum value: 2147483647
mount_point	String	Specifies the mount point. Minimum length: 0 characters Maximum length: 255 characters
name	String	Specifies 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	Specifies the volume size. Minimum value: 0 Maximum value: 9223372036854775807

Parameter	Type	Description
used_size	Long	Specifies the used space. Minimum value: 0 Maximum value: 9223372036854775807
uuid	String	Specifies the GUID of the volume, which can be obtained from the source server. Minimum length: 0 characters Maximum length: 255 characters
size_per_cluster	Integer	Specifies the size of each cluster. Minimum value: 0 Maximum value: 2147483647

Table 4-96 BtrfsFileSystem field description

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

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

Table 4-97 BtrfsFileSystem field description

Parameter	Type	Description
uuid	String	Specifies the UUID of the parent volume. Minimum length: 0 characters Maximum length: 255 characters

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

Table 4-98 NetWork field description

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

Parameter	Type	Description
mac	String	Specifies the MAC address. Minimum length: 0 characters Maximum length: 255 characters
id	String	Specifies the database ID. Minimum length: 0 characters Maximum length: 255 characters

Table 4-99 TaskTargetServer field description

Parameter	Type	Description
id	String	Specifies the ID of the source server in the SMS database. Minimum length: 0 characters Maximum length: 255 characters
vm_id	String	Specifies the ID of the target server. This parameter is not required for automatically created target server. Minimum length: 0 characters Maximum length: 255 characters
name	String	Specifies the name of the target server. Minimum length: 0 characters Maximum length: 255 characters
ip	String	Specifies the IP address of the target server. Minimum length: 0 characters Maximum length: 255 characters
os_type	String	Specifies the OS type of the source server. This parameter is mandatory for registering the source server with SMS and optional for updating the information about the source server. Minimum length: 0 characters Maximum length: 255 characters The value can be: <ul style="list-style-type: none"> ● WINDOWS ● LINUX
os_version	String	Specifies the OS version. Minimum length: 0 characters Maximum length: 255 characters

Parameter	Type	Description
system_dir	String	Specifies the system directory. This parameter is mandatory for Windows. Minimum length: 0 characters Maximum length: 255 characters
disks	Array of TargetDisk objects	Specifies the disk information of the target server, which is generally the same as that of the source server.
volume_group_s	Array of VolumeGroups objects	Specifies the logical volume information of the target server, which is generally the same as that on the source server.
btrfs_list	Array of strings	Specifies the Btrfs information on the source server. This parameter is mandatory for Linux. If no Btrfs exists on the source server, an empty array will be returned.
image_disk_id	String	Specifies the ID of the disk where the agent image resides on the target server. Minimum length: 0 characters Maximum length: 255 characters
cutovered_snapshot_ids	String	Specifies the ID of the snapshot used for rollback on the target server. Minimum length: 0 characters Maximum length: 255 characters

Table 4-100 TargetDisk field description

Parameter	Type	Description
device_use	String	Specifies the disk type. Default value: NORMAL The value can be: <ul style="list-style-type: none"> ● NORMAL ● OS ● BOOT
disk_id	String	Specifies the disk ID. Minimum length: 0 characters Maximum length: 255 characters
name	String	Specifies the disk name. Minimum length: 0 characters Maximum length: 255 characters

Parameter	Type	Description
physical_volumes	Array of TargetPhysicalVolumes objects	Specifies the logical volume information.
size	Long	Specifies the volume size. Minimum value: 0 Maximum value: 9223372036854775807
used_size	Long	Specifies the used space. Minimum value: 0 Maximum value: 9223372036854775807

Table 4-101 TargetPhysicalVolumes field description

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

Parameter	Type	Description
used_size	Long	Specifies the used space. Minimum value: 0 Maximum value: 9223372036854775807
uuid	String	uuid Minimum length: 0 characters Maximum length: 255 characters

Table 4-102 VolumeGroups field description

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

Table 4-103 LogicalVolumes field description

Parameter	Type	Description
block_count	Integer	Specifies the number of blocks. Minimum value: 0 Maximum value: 4294967296 Default value: 0

Parameter	Type	Description
block_size	Long	Specifies the block size. Minimum value: 0 Maximum value: 1048576 Default value: 0
file_system	String	Specifies the file system. Minimum length: 0 characters Maximum length: 255 characters
inode_size	Integer	Specifies the number of inodes. Minimum value: 0 Maximum value: 4294967296
mount_point	String	Specifies the mount point. Minimum length: 0 characters Maximum length: 256 characters
name	String	Specifies the volume group name. Minimum length: 0 characters Maximum length: 1,024 characters
size	Long	Specifies the volume size. Minimum value: 0 Maximum value: 9223372036854775807
used_size	Long	Specifies the used space. Minimum value: 0 Maximum value: 9223372036854775807
free_size	Long	Specifies the available space. Minimum value: 0 Maximum value: 9223372036854775807

Table 4-104 CloneServer field description

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

Parameter	Type	Description
clone_error	String	Specifies the error message returned for cloning failure. Minimum length: 0 characters Maximum length: 255 characters
clone_state	String	Specifies the cloning status. Minimum length: 0 characters Maximum length: 255 characters
error_msg	String	Specifies the error message returned for cloning failure. Minimum length: 0 characters Maximum length: 1,024 characters

Table 4-105 SubTask field description

Parameter	Type	Description
name	String	Specifies the subtask name. Minimum length: 0 characters Maximum length: 255 characters
progress	Integer	Specifies the progress of the subtask. The value is an integer ranging from 0 to 100. Minimum value: 0 Maximum value: 100
start_date	Long	Specifies the start time of the subtask. Minimum value: 0 Maximum value: 9223372036854775807
end_date	Long	Specifies the end time of the subtask. If the subtask is not complete, this parameter is left blank. Minimum value: 0 Maximum value: 9223372036854775807
migrate_speed	Double	Specifies the migration speed in Mbit/s. Minimum value: 0 Maximum value: 10000
user_op	String	Specifies the user operation that triggers the subtask. Minimum length: 0 characters Maximum length: 50 characters

Parameter	Type	Description
process_trace	String	Detailed progress of the migration or synchronization Minimum length: 0 characters Maximum length: 2048 characters

Example Request

Querying a Migration Task with a Specified ID

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

Example Response

Status code: 200

OK

```
{
  "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" : "longbin-win16",
  "os_type" : "WINDOWS",
  "os_version" : "WINDOWS2016_64BIT",
  "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" : "\u0000"
}],
"volume_groups" : [ ],
"image_disk_id" : null,
"cutovered_snapshot_ids" : null
},
"clone_server" : null
}

```

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.2.6 Updating a Migration Task with a Specified ID

Function

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

URI

PUT /v3/tasks/{task_id}

Table 4-106 Path parameter

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

Request

Table 4-107 Request header parameter

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

Table 4-108 Request body parameters

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

Parameter	Mandatory	Type	Description
id	No	String	Specifies the migration task ID. Minimum length: 0 characters Maximum length: 255 characters
priority	No	Integer	Specifies the migration process priority. 0 : low 1 : standard (default) 2 : high Minimum value: 0 Maximum value: 2 The value can be: <ul style="list-style-type: none"> • 0 • 1 • 2
region_id	No	String	Specifies the ID of the region where the target server is located. Minimum length: 0 characters Maximum length: 255 characters
start_target_server	No	Boolean	Specifies whether to launch the target server after the migration is complete. true : indicates that the target server will be launched after the migration. false : indicates that the target server will be stopped after the migration. Default value: true
enterprise_project_id	No	String	Specifies the enterprise project ID. Minimum length: 1 character Maximum length: 255 characters

Parameter	Mandatory	Type	Description
migration_ip	No	String	Specifies the IP address of the target server. Enter the EIP of the target server if the migration network type is Internet . Enter the private IP address the target server if the migration network type is Direct Connect or VPN . Minimum length: 0 characters Maximum length: 255 characters
region_name	No	String	Specifies the name of the region where the target server is located. Minimum length: 0 characters Maximum length: 255 characters
project_name	No	String	Specifies the name of the project to which the target server belongs. Minimum length: 0 characters Maximum length: 255 characters
project_id	No	String	Specifies the ID of the project to which the target server belongs. Minimum length: 0 characters Maximum length: 255 characters
vm_template_id	No	String	Specifies the template ID. Minimum length: 0 characters Maximum length: 255 characters
source_server	No	PostSourceServerBody object	Specifies the information about the source server in the migration task.
target_server	No	TargetServer object	Specifies the information about the target server in the migration task.

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

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

Table 4-109 PostSourceServerBody field description

Parameter	Mandatory	Type	Description
id	No	String	Specifies the ID of the source server in the SMS database. Minimum length: 0 characters Maximum length: 255 characters
ip	Yes	String	Specifies 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	Mandatory	Type	Description
name	Yes	String	Specifies the name of the source server displayed on the SMS console. Minimum length: 0 characters Maximum length: 255 characters
hostname	No	String	Specifies the host name of the source server. This parameter is mandatory for registering the source server with SMS and optional for updating the information about the source server. Minimum length: 0 characters Maximum length: 255 characters
os_type	Yes	String	Specifies the OS type of the source server. This parameter is mandatory for registering the source server with SMS and optional for updating the information about the source server. Minimum length: 0 characters Maximum length: 255 characters The value can be: <ul style="list-style-type: none"> ● WINDOWS ● LINUX
os_version	No	String	Specifies the OS version. Minimum length: 0 characters Maximum length: 255 characters
firmware	No	String	Specifies the boot mode. Minimum length: 0 characters Maximum length: 255 characters The value can be: <ul style="list-style-type: none"> ● BIOS ● UEFI

Parameter	Mandatory	Type	Description
cpu_quantity	No	Integer	Specifies the number of CPUs. Minimum value: 0 Maximum value: 65535
memory	No	Long	Specifies the memory size (MB). Minimum value: 0 Maximum value: 9223372036854775807
disks	No	Array of ServerDisk objects	Specifies the disk information of the source server.
btrfs_list	No	Array of BtrfsFilesystem objects	Specifies the Btrfs information on the source server. This parameter is mandatory for Linux. If no Btrfs exists on the source server, an empty array will be returned.
networks	No	Array of NetWork objects	Specifies the NIC information of the source server.
domain_id	No	String	Specifies the domain ID of a tenant. Minimum length: 0 characters Maximum length: 255 characters
has_rsync	No	Boolean	Specifies whether rsync is installed. This parameter is mandatory for Linux.
paravirtualization	No	Boolean	Specifies whether the source server is paravirtualized. This parameter is mandatory for Linux.
raw_devices	No	String	Specifies the list of raw devices. This parameter is mandatory for Linux. Minimum length: 0 characters Maximum length: 255 characters
driver_files	No	Boolean	Specifies whether any driver files are missing. This parameter is mandatory for Windows.

Parameter	Mandatory	Type	Description
system_services	No	Boolean	Specifies whether there are abnormal services. This parameter is mandatory for Windows.
account_rights	No	Boolean	Specifies whether the account has the required permissions. This parameter is mandatory for Windows.
boot_loader	No	String	Specifies the system boot mode. This parameter is mandatory for Linux. The value can be: <ul style="list-style-type: none"> • GRUB • LILO
system_dir	No	String	Specifies the system directory. This parameter is mandatory for Windows. Minimum length: 0 characters Maximum length: 255 characters
volume_groups	No	Array of VolumeGroups objects	This parameter is mandatory for Linux. If there is no volume group, the value is [].
agent_version	Yes	String	Specifies the Agent version. Minimum length: 0 characters Maximum length: 255 characters

Table 4-110 ServerDisk

Parameter	Mandatory	Type	Description
name	Yes	String	Specifies the disk name. Minimum length: 0 characters Maximum length: 255 characters

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

Table 4-111 PhysicalVolume

Parameter	Mandatory	Type	Description
device_use	No	String	Specifies the partition type. The value can be NORMAL , BOOT , or OS . Minimum length: 0 characters Maximum length: 255 characters
file_system	No	String	Specifies the file system type. Minimum length: 0 characters Maximum length: 255 characters
index	No	Integer	Specifies the serial number of the volume. Minimum value: 0 Maximum value: 2147483647
mount_point	No	String	Specifies the mount point. Minimum length: 0 characters Maximum length: 255 characters
name	No	String	Specifies 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	Specifies the volume size. Minimum value: 0 Maximum value: 9223372036854775807
used_size	No	Long	Specifies the used space. Minimum value: 0 Maximum value: 9223372036854775807

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

Table 4-112 BtrfsFileSystem

Parameter	Mandatory	Type	Description
name	Yes	String	Specifies the file system name. Minimum length: 0 characters Maximum length: 255 characters
label	Yes	String	Specifies 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	Specifies the UUID of the file system. Minimum length: 0 characters Maximum length: 255 characters
device	Yes	String	Specifies the device name in the Btrfs. Minimum length: 0 characters Maximum length: 255 characters
size	Yes	Long	Specifies the space occupied by the file system. Minimum value: 0 Maximum value: 9223372036854775807

Parameter	Mandatory	Type	Description
nodesize	Yes	Long	Specifies the size of the Btrfs node. Minimum value: 0 Maximum value: 9223372036854775807
sectorsize	Yes	Integer	Specifies the sector size. Minimum value: 0 Maximum value: 2147483647
data_profile	Yes	String	Specifies the data profile (RAD). Minimum length: 0 characters Maximum length: 255 characters
system_profile	Yes	String	Specifies the file system profile (RAD). Minimum length: 0 characters Maximum length: 255 characters
metadata_profile	Yes	String	Specifies the metadata profile (RAD). Minimum length: 0 characters Maximum length: 255 characters
global_reserve_1	Yes	String	Specifies the Btrfs file system information. Minimum length: 0 characters Maximum length: 255 characters
g_vol_used_size	Yes	Long	Specifies the used space of the Btrfs volume. Minimum value: 0 Maximum value: 9223372036854775807
default_subvol_id	Yes	String	Specifies the ID of the default subvolume. Minimum length: 0 characters Maximum length: 255 characters

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

Table 4-113 BtrfsSubvolumn field description

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

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

Table 4-114 TargetServer field description

Parameter	Mandatory	Type	Description
id	No	String	Specifies the ID of the source server in the SMS database. Minimum length: 0 characters Maximum length: 255 characters
ip	Yes	String	Specifies 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	Specifies the name of the target server. Minimum length: 0 characters Maximum length: 255 characters

Parameter	Mandatory	Type	Description
hostname	No	String	Specifies the host name of the source server. This parameter is mandatory for registering the source server with SMS and optional for updating the information about the source server. Minimum length: 0 characters Maximum length: 255 characters
os_type	Yes	String	Specifies the OS type of the source server. This parameter is mandatory for registering the source server with SMS and optional for updating the information about the source server. Minimum length: 0 characters Maximum length: 255 characters The value can be: <ul style="list-style-type: none"> • WINDOWS • LINUX
os_version	No	String	Specifies the OS version. Minimum length: 0 characters Maximum length: 255 characters
firmware	No	String	Specifies the boot mode. Minimum length: 0 characters Maximum length: 255 characters The value can be: <ul style="list-style-type: none"> • BIOS • UEFI
cpu_quantity	No	Integer	Specifies the number of CPUs. Minimum value: 0 Maximum value: 65535

Parameter	Mandatory	Type	Description
memory	No	Long	Specifies the memory size (MB). Minimum value: 0 Maximum value: 9223372036854775807
disks	Yes	Array of TargetDisk objects	Specifies the disk information of the target server, which is generally the same as that of the source server.
btrfs_list	No	Array of strings	Specifies the Btrfs information on the source server. This parameter is mandatory for Linux. If no Btrfs exists on the source server, an empty array will be returned.
networks	No	Array of NetWork objects	Specifies the NIC information of the source server.
domain_id	No	String	Specifies the domain ID of a tenant. Minimum length: 0 characters Maximum length: 255 characters
has_rsync	No	Boolean	Specifies whether rsync is installed. This parameter is mandatory for Linux.
paravirtualization	No	Boolean	Specifies whether the source server is paravirtualized. This parameter is mandatory for Linux.
raw_devices	No	String	Specifies the list of raw devices. This parameter is mandatory for Linux. Minimum length: 0 characters Maximum length: 255 characters
driver_files	No	Boolean	Specifies whether any driver files are missing. This parameter is mandatory for Windows.

Parameter	Mandatory	Type	Description
system_services	No	Boolean	Specifies whether there are abnormal services. This parameter is mandatory for Windows.
account_rights	No	Boolean	Specifies whether the account has the required permissions. This parameter is mandatory for Windows.
boot_loader	No	String	Specifies the system boot mode. This parameter is mandatory for Linux. The value can be: <ul style="list-style-type: none"> • GRUB • LILO
system_dir	No	String	Specifies the system directory. This parameter is mandatory for Windows. Minimum length: 0 characters Maximum length: 255 characters
volume_groups	No	Array of VolumeGroups objects	Specifies the logical volume information of the target server, which is generally the same as that on the source server.
vm_id	No	String	Specifies the ID of the target server. This parameter is not required for automatically created target server. Minimum length: 0 characters Maximum length: 255 characters
flavor	No	String	Specifies the flavor of the target server. Minimum length: 0 characters Maximum length: 255 characters

Parameter	Mandatory	Type	Description
image_disk_id	No	String	Specifies the ID of the disk where the agent image resides on the target server. Minimum length: 0 characters Maximum length: 255 characters
snapshot_ids	No	String	Specifies the ID of the snapshot for the target server. Minimum length: 0 characters Maximum length: 255 characters
cutovered_snapshot_ids	No	String	Specifies the ID of the snapshot used for rollback on the target server. Minimum length: 0 characters Maximum length: 255 characters

Table 4-115 TargetDisk field description

Parameter	Mandatory	Type	Description
device_use	No	String	Specifies the disk type. Default value: NORMAL The value can be: <ul style="list-style-type: none"> • NORMAL • OS • BOOT
disk_id	No	String	Specifies the disk ID. Minimum length: 0 characters Maximum length: 255 characters
name	No	String	Specifies the disk name. Minimum length: 0 characters Maximum length: 255 characters
physical_volumes	No	Array of TargetPhysicalVolumes objects	Specifies the logical volume information.

Parameter	Mandatory	Type	Description
size	No	Long	Specifies the volume size. Minimum value: 0 Maximum value: 9223372036854775807
used_size	No	Long	Specifies the used space. Minimum value: 0 Maximum value: 9223372036854775807

Table 4-116 TargetPhysicalVolumes field description

Parameter	Mandatory	Type	Description
device_use	No	String	Specifies the partition type. Default value: NORMAL The value can be: <ul style="list-style-type: none"> • NORMAL • OS • BOOT
file_system	No	String	Specifies the file system. Minimum length: 0 characters Maximum length: 255 characters
index	No	Integer	Specifies the volume ID. Minimum value: 0 Maximum value: 2147483647
mount_point	No	String	Specifies the mount point. Minimum length: 0 characters Maximum length: 255 characters
name	No	String	Specifies the volume group name. Minimum length: 0 characters Maximum length: 255 characters
size	No	Long	Specifies the volume size. Minimum value: 0 Maximum value: 9223372036854775807

Parameter	Mandatory	Type	Description
used_size	No	Long	Specifies the used space. Minimum value: 0 Maximum value: 9223372036854775807
uuid	No	String	uuid Minimum length: 0 characters Maximum length: 255 characters

Table 4-117 NetWork field description

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

Parameter	Mandatory	Type	Description
id	No	String	Specifies the database ID. Minimum length: 0 characters Maximum length: 255 characters

Table 4-118 VolumeGroups field description

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

Table 4-119 LogicalVolumes field description

Parameter	Mandatory	Type	Description
block_count	No	Integer	Specifies the number of blocks. Minimum value: 0 Maximum value: 4294967296 Default value: 0

Parameter	Mandatory	Type	Description
block_size	No	Long	Specifies the block size. Minimum value: 0 Maximum value: 1048576 Default value: 0
file_system	Yes	String	Specifies the file system. Minimum length: 0 characters Maximum length: 255 characters
inode_size	Yes	Integer	Specifies the number of inodes. Minimum value: 0 Maximum value: 4294967296
mount_point	Yes	String	Specifies the mount point. Minimum length: 0 characters Maximum length: 256 characters
name	Yes	String	Specifies the volume group name. Minimum length: 0 characters Maximum length: 1,024 characters
size	Yes	Long	Specifies the volume size. Minimum value: 0 Maximum value: 9223372036854775807
used_size	Yes	Long	Specifies the used space. Minimum value: 0 Maximum value: 9223372036854775807
free_size	Yes	Long	Specifies the available space. Minimum value: 0 Maximum value: 9223372036854775807

Table 4-120 CloneServer field description

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

Table 4-121 SubTask field description

Parameter	Mandatory	Type	Description
name	No	String	Specifies the subtask name. Minimum length: 0 characters Maximum length: 255 characters
progress	Yes	Integer	Specifies the progress of the subtask. The value is an integer ranging from 0 to 100. Minimum value: 0 Maximum value: 100

Parameter	Mandatory	Type	Description
start_date	No	Long	Specifies the start time of the subtask. Minimum value: 0 Maximum value: 9223372036854775807
end_date	No	Long	Specifies the end time of the subtask. If the subtask is not complete, this parameter is left blank. Minimum value: 0 Maximum value: 9223372036854775807
migrate_speed	No	Double	Specifies the migration speed in Mbit/s. Minimum value: 0 Maximum value: 10000
user_op	No	String	Specifies the user operation that triggers the subtask. Minimum length: 0 characters Maximum length: 50 characters
process_trace	No	String	Detailed progress of the migration or synchronization Minimum length: 0 characters Maximum length: 2048 characters

Response

None

Example Request

Update 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" : "longbin-win16",
  "os_type" : "WINDOWS",
  "os_version" : "WINDOWS2016_64BIT",
  "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": "\u0000"
}],
"volume_groups": [ ],
"image_disk_id": null,
"cutovered_snapshot_ids": null
},
"clone_server": null
}

```

Example Response

Status code: 200

OK

```

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

```

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.2.7 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.

URI

POST /v3/tasks/{task_id}/action

Table 4-122 Path parameter

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

Request

Table 4-123 Request header parameter

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

Table 4-124 Request body parameters

Parameter	Mandatory	Type	Description
operation	Yes	String	Specifies the operation to be performed on the task. The value can be: <ul style="list-style-type: none"> • start • stop • collect_log • test • clone_test • restart • sync_failed_rollback
param	No	Map<String,String>	Specifies the operation parameters.

Response

None

Example Request

- Clone the target server for the task whose ID is **7a9a9540-ff28-4869-b9e4-855fbe12xxxx**.
POST `https://{endpoint}/v3/tasks/7a9a9540-ff28-4869-b9e4-855fbe12e83b/action`

```
{
  "operation" : "clone_test"
}
```
- Launch the target server for the task whose ID is **7a9a9540-ff28-4869-b9e4-855fbe12xxxx**.
POST `https://{endpoint}/v3/tasks/7a9a9540-ff28-4869-b9e4-855fbe12xxxx/action`

```
{
  "operation" : "test"
}
```
- Start the task whose ID is **7a9a9540-ff28-4869-b9e4-855fbe12xxxx**.
POST `https://{endpoint}/v3/tasks/7a9a9540-ff28-4869-b9e4-855fbe12xxxx/action`

```
{
  "operation" : "start"
}
```
- Roll back the failed synchronization task whose ID is **7a9a9540-ff28-4869-b9e4-855fbe12xxxx**.
POST `https://{endpoint}/v3/tasks/7a9a9540-ff28-4869-b9e4-855fbe12xxxx/action`

```
{
  "operation" : "sync_failed_rollback"
}
```
- Pause the task whose ID is **7a9a9540-ff28-4869-b9e4-855fbe12xxxx**.
POST `https://{endpoint}/v3/tasks/7a9a9540-ff28-4869-b9e4-855fbe12xxxx/action`

```
{  
  "operation" : "stop"  
}
```

- Restart the finished task whose ID is **7a9a9540-ff28-4869-b9e4-855fbe12xxxx**.

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

```
{  
  "operation" : "restart"  
}
```

- Upload the logs of the task whose ID is **7a9a9540-ff28-4869-b9e4-855fbe12xxxx**.

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

```
{  
  "operation" : "collect_log",  
  "params" : {  
    "bucket" : "sms"  
  }  
}
```

Example Response

None

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.2.8 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.

URI

PUT [/v3/tasks/{task_id}/progress](#)

Table 4-125 Path parameter

Parameter	Mandatory	Type	Description
task_id	Yes	String	Specifies the migration task ID for which you set migration rate limit. Minimum length: 0 characters Maximum length: 255 characters

Request

Table 4-126 Request header parameter

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

Table 4-127 Request body parameters

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

Parameter	Mandatory	Type	Description
replicatesize	Yes	Long	Specifies the amount of data that has been replicated in the subtask, in bytes. Minimum value: 0 Maximum value: 9223372036854775807
totalsize	Yes	Long	Specifies the total amount of data to be migrated in the subtask. Minimum value: 0 Maximum value: 9223372036854775807
process_trace	Yes	String	Detailed progress of the migration or synchronization Minimum length: 0 characters Maximum length: 2048 characters
migrate_speed	No	Double	Specifies the migration rate in Mbit/s. Minimum value: 0 Maximum value: 10000
compress_rate	No	Double	File compression rate

Response

None

Example Request

Report the progress of the task whose ID is **7a9a9540-ff28-4869-b9e4-855fbe12xxxx**.

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

See [Error Codes](#).

4.2.9 Querying the Migration Rate Limit Rules of a Migration Task

Function

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

URI

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

Table 4-128 Path parameter

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

Request

Table 4-129 Request header parameter

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

Response

Status code: 200

Table 4-130 Response body parameters

Parameter	Type	Description
speed_limit	Array of SpeedLimitUson objects	Specifies the information about the time segments when the migration rate is limited.

Table 4-131 SpeedLimitUson field description

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

Example Request

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

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

Example Response

Status code: 200

OK

```
{
  "speed_limit": [ {
    "start": "00:00",
    "end": "23:59",
```

```
"speed" : 0
}]
}
```

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.2.10 Setting Migration Rate Limit Rules for a Migration Task

Function

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

URI

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

Table 4-132 Path parameter

Parameter	Mandatory	Type	Description
task_id	Yes	String	Specifies the migration task ID for which you set migration rate limit. Minimum length: 0 characters Maximum length: 255 characters

Request

Table 4-133 Request header parameter

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

Table 4-134 Request body parameter

Parameter	Mandatory	Type	Description
speed_limit	Yes	Array of SpeedLimitUs on objects	Specifies the information about the time segment-based migration rate limit rules.

Table 4-135 SpeedLimitUson field description

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

Response

None

Example Request

- Set migration rate limit for the task whose ID is **7a9a9540-ff28-4869-b9e4-855fbe12e83b**.

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

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

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

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

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

Example Response

None

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.3 Command Management

4.3.1 Obtaining Commands from SMS

Function

This API is called by the Agent installed on the source server to obtain commands from SMS.

URI

GET /v3/sources/{server_id}/command

Table 4-136 Path parameter

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

Request

Table 4-137 Request header parameter

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

Response

Status code: 200

Table 4-138 Response body parameters

Parameter	Type	Description
command_name	String	Specifies the command name. The options can be START , STOP , DELETE , and SYNC . Minimum length: 0 characters Maximum length: 255 characters
command_param	ComandParam object	Specifies the command response parameters.

Table 4-139 ComandParam field description

Parameter	Type	Description
task_id	String	Specifies the task ID. Minimum length: 0 characters Maximum length: 255 characters
bucket	String	Specifies the bucket name. Minimum length: 0 characters Maximum length: 255 characters

Status code: 400

Table 4-140 Response body parameters

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

Status code: 401

Table 4-141 Response body parameters

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

Status code: 403

Table 4-142 Response body parameters

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

Status code: 404

Table 4-143 Response body parameters

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

Status code: 500

Table 4-144 Response body parameters

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

Example Request

Obtain 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

See [Error Codes](#).

4.3.2 Reporting the Command Execution Result to SMS

Function

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

URI

POST /v3/sources/{server_id}/command_result

Table 4-145 Path parameter

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

Request

Table 4-146 Request header parameter

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

Table 4-147 Request body parameters

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

Response

Status code: 400

Table 4-148 Response body parameters

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

Status code: 401

Table 4-149 Response body parameters

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

Status code: 403

Table 4-150 Response body parameters

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

Status code: 404

Table 4-151 Response body parameters

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

Status code: 500

Table 4-152 Response body parameters

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

Example Request

Report a command execution result.

```
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

See [Error Codes](#).

4.4 Template Management

4.4.1 Creating a Template

Function

This API is used to create a template.

URI

POST /v3/vm/templates

Request

Table 4-153 Request header parameter

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

Table 4-154 Request body parameters

Parameter	Mandatory	Type	Description
template	Yes	TemplateRequest object	Specifies the template information.

Table 4-155 [TemplateRequest](#) field description

Parameter	Mandatory	Type	Description
name	Yes	String	Specifies the template name. Minimum length: 0 characters 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	Specifies the region where the target server will reside. Minimum length: 0 characters Maximum length: 255 characters
projectid	Yes	String	Specifies the project ID. Minimum length: 0 characters Maximum length: 255 characters
target_server_name	No	String	Specifies the name of the target server. Minimum length: 0 characters Maximum length: 255 characters
availability_zone	No	String	Specifies the AZ of the target server. Minimum length: 0 characters Maximum length: 255 characters
volumetype	No	String	Specifies the disk type. The value can be: <ul style="list-style-type: none"> • SAS • SSD • SATA
flavor	No	String	Specifies the flavor of the target server. Minimum length: 0 characters Maximum length: 65,535 characters
vpc	No	VpcObject object	Specifies the VPC information.

Parameter	Mandatory	Type	Description
nics	No	Array of Nics objects	Specifies the NIC information. Multiple NICs are supported. If the target server is automatically created, enter only one NIC and set the ID to autoCreate .
security_groups	No	Array of SgObject objects	Specifies the security group information. Multiple security groups are supported. If the target server is automatically created, enter only one security group and set the ID to autoCreate .
publicip	No	PublicIp object	Specifies the information about the public IP address that will be used for migration.
disk	No	Array of TemplateDisk objects	Specifies the disk information.
data_volume_type	No	String	Specifies the data disk type. The value can be: <ul style="list-style-type: none"> • SAS • SSD • SATA
target_password	No	String	Specifies the password for logging in to the target server. Minimum length: 0 characters Maximum length: 1,024 characters

Table 4-156 VpcObject field description

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

Parameter	Mandatory	Type	Description
name	Yes	String	Specifies the VPC name. Minimum length: 1 character Maximum length: 255 characters
cidr	No	String	Specifies the VPC CIDR block. The default value is 192.168.0.0/16 . Minimum length: 1 character Maximum length: 255 characters

Table 4-157 Nics field description

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

Table 4-158 SgObject field description

Parameter	Mandatory	Type	Description
id	Yes	String	Specifies the security group ID. Minimum length: 0 characters Maximum length: 255 characters
name	Yes	String	Specifies the security group name. Minimum length: 0 characters Maximum length: 255 characters

Table 4-159 PublicIcp field description

Parameter	Mandatory	Type	Description
type	Yes	String	Specifies the EIP type. The default value is 5_bgp . Minimum length: 0 characters Maximum length: 255 characters
bandwidth_size	Yes	Integer	Specifies the bandwidth size in Mbit/s. The minimum increment for bandwidth adjustment varies depending on the bandwidth range. The details are as follows: The minimum increment is 1 Mbit/s if the allowed bandwidth ranges from 0 Mbit/s to 300 Mbit/s (with 300 Mbit/s included). The minimum increment is 50 Mbit/s if the allowed bandwidth ranges from 300 Mbit/s to 1,000 Mbit/s. The minimum increment is 500 Mbit/s if the allowed bandwidth is greater than 1,000 Mbit/s. Minimum value: 1 Maximum value: 2000

Table 4-160 TemplateDisk field description

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

Response

Status code: 200

Table 4-161 Response body parameters

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

Example Request

- Create a template during the creation of a migration task.
POST `https://{endpoint}/v3/vm/templates`

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

```

"availability_zone" : "availability_zone",
"volumetype" : "",
"vpc" : {
  "id" : "00cda768-ef7b-40ac-a555-84b0c2b85d89",
  "name" : "sms-1566979232(192.168.0.0/16)"
},
"security_groups" : [ {
  "id" : "00d57b53-c00b-4d0a-975b-0f3c4fc93c8",
  "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"
},
"disks" : [ {
  "index" : 0,
  "name" : "system",
  "disktype" : "",
  "size" : 40,
  "$$hashKey" : "object:3065"
} ]
}
}

```

- Create 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",
    "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

See [Error Codes](#).

4.4.2 Listing Templates

Function

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

URI

GET /v3/vm/templates

Table 4-162 Query parameters

Parameter	Mandatory	Type	Description
name	No	String	Specifies the template name. Minimum length: 0 characters Maximum length: 255 characters

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

Request

Table 4-163 Request header parameter

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

Response

Status code: 200

Table 4-164 Response body parameters

Parameter	Type	Description
count	Integer	Specifies the number of templates. Minimum value: 0 Maximum value: 65535
templates	Array of TemplateResponse objects	Specifies the template information.

Table 4-165 [TemplateResponse](#) field description

Parameter	Type	Description
template	TemplateResponseBody object	Specifies the template information.

Table 4-166 [TemplateResponseBody](#) field description

Parameter	Type	Description
id	String	Specifies the template ID. Minimum length: 0 characters Maximum length: 255 characters
name	String	Specifies the template name. Minimum length: 0 characters Maximum length: 255 characters
is_template	String	Specifies whether the template is general. If the template is associated with a task, the template is not a general template. Minimum length: 0 characters Maximum length: 255 characters
region	String	Specifies the region where the target server will reside. Minimum length: 0 characters Maximum length: 255 characters
projectid	String	Specifies the project ID. Minimum length: 0 characters Maximum length: 255 characters

Parameter	Type	Description
target_server_name	String	Specifies the name of the target server. Minimum length: 0 characters Maximum length: 255 characters
availability_zone	String	Specifies the AZ of the target server. Minimum length: 0 characters Maximum length: 255 characters
volumetype	String	Specifies the disk type. The value can be: <ul style="list-style-type: none"> • SAS • SSD • SATA
flavor	String	Specifies the flavor of the target server. Minimum length: 0 characters Maximum length: 255 characters
vpc	VpcObject object	Specifies the VPC information.
nics	Array of Nics objects	Specifies the NIC information. Multiple NICs are supported. If the target server is automatically created, enter only one NIC and set the ID to autoCreate .
security_groups	Array of SgObject objects	Specifies the security group information. Multiple security groups are supported. If the target server is automatically created, enter only one security group and set the ID to autoCreate .
publicip	PublicIp object	Specifies the information about the public IP address that will be used for migration.
disk	Array of TemplateDisk objects	Specifies the disk information.
data_volume_type	String	Specifies the data disk type. The value can be: <ul style="list-style-type: none"> • SAS • SSD • SATA

Parameter	Type	Description
target_password	String	Specifies the password for logging in to the target server. Minimum length: 0 characters Maximum length: 1,024 characters

Table 4-167 VpcObject field description

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

Table 4-168 Nics field description

Parameter	Type	Description
id	String	Specifies the subnet ID. If the target server is created automatically, set this parameter to autoCreate . Minimum length: 0 characters Maximum length: 255 characters
name	String	Specifies the subnet name. Minimum length: 0 characters Maximum length: 255 characters
cidr	String	Specifies the subnet gateway/mask. Minimum length: 0 characters Maximum length: 255 characters

Parameter	Type	Description
ip	String	Specifies the IP address of the target server. If this parameter is not specified, the system will automatically assign an IP address. Minimum length: 0 characters Maximum length: 255 characters

Table 4-169 SgObject field description

Parameter	Type	Description
id	String	Specifies the security group ID. Minimum length: 0 characters Maximum length: 255 characters
name	String	Specifies the security group name. Minimum length: 0 characters Maximum length: 255 characters

Table 4-170 PublicIp field description

Parameter	Type	Description
type	String	Specifies the EIP type. The default value is 5_bgp . Minimum length: 0 characters Maximum length: 255 characters
bandwidth_size	Integer	Specifies the bandwidth size in Mbit/s. The minimum increment for bandwidth adjustment varies depending on the bandwidth range. The details are as follows: The minimum increment is 1 Mbit/s if the allowed bandwidth ranges from 0 Mbit/s to 300 Mbit/s (with 300 Mbit/s included). The minimum increment is 50 Mbit/s if the allowed bandwidth ranges from 300 Mbit/s to 1,000 Mbit/s. The minimum increment is 500 Mbit/s if the allowed bandwidth is greater than 1,000 Mbit/s. Minimum value: 1 Maximum value: 2000

Table 4-171 TemplateDisk field description

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

Example Request

Query 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" : "",
    "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": "",
    "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": "",
    "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": "",
    "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" : "",
"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",
  "vpc" : {
    "id" : "b09cebf6-6887-4c58-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" : "",
  "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",
  "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" : "",

```



```

"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

See [Error Codes](#).

4.4.3 Deleting Templates with Specified IDs in Batches

Function

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

URI

POST /v3/vm/templates/delete

Request

Table 4-172 Request header parameter

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

Table 4-173 Request body parameters

Parameter	Mandatory	Type	Description
ids	No	Array of strings	Specifies the IDs of the templates to be deleted.

Response

None

Example Request

Delete the templates with the IDs of **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

See [Error Codes](#).

4.4.4 Deleting a Template with a Specified ID

Function

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

URI

DELETE /v3/vm/templates/{id}

Table 4-174 Path parameter

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

Request

Table 4-175 Request header parameter

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

Response

None

Example Request

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

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

Example Response

None

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.4.5 Querying Information About a Template with a Specified ID

Function

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

URI

GET /v3/vm/templates/{id}

Table 4-176 Path parameter

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

Request

Table 4-177 Request header parameter

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

Response

Status code: 200

Table 4-178 Response body parameters

Parameter	Type	Description
template	TemplateResponseBody object	Specifies the template information.

Table 4-179 TemplateResponseBody field description

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

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

Table 4-180 VpcObject field description

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

Table 4-181 Nics field description

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

Table 4-182 SgObject field description

Parameter	Type	Description
id	String	Specifies the security group ID. Minimum length: 0 characters Maximum length: 255 characters
name	String	Specifies the security group name. Minimum length: 0 characters Maximum length: 255 characters

Table 4-183 PublicIp field description

Parameter	Type	Description
type	String	Specifies the EIP type. The default value is 5_bgp . Minimum length: 0 characters Maximum length: 255 characters

Parameter	Type	Description
bandwidth_size	Integer	<p>Specifies the bandwidth size in Mbit/s. The minimum increment for bandwidth adjustment varies depending on the bandwidth range. The details are as follows:</p> <p>The minimum increment is 1 Mbit/s if the allowed bandwidth ranges from 0 Mbit/s to 300 Mbit/s (with 300 Mbit/s included). 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: 1 Maximum value: 2000</p>

Table 4-184 TemplateDisk field description

Parameter	Type	Description
index	Integer	<p>Specifies the disk serial number, starting from 0</p> <p>Minimum value: 0 Maximum value: 2147483647</p>
name	String	<p>Specifies the disk name.</p> <p>Minimum length: 0 characters Maximum length: 255 characters</p>
disktype	String	<p>Specifies the disk type. The value is the same as that of volumetype.</p> <p>Minimum length: 0 characters Maximum length: 255 characters</p>
size	Long	<p>Specifies the disk size in GB.</p> <p>Minimum value: 0 Maximum value: 9223372036854775807</p>

Example Request

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

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


Example Response

Status code: 200

OK

```
{
  "template" : {
    "id" : "6874cb49-48bb-4875-975d-4bca464d8472",
    "name" : "test1025",
    "region" : "region",
    "target_server_name" : "",
    "availability_zone" : "availability_zone",
    "projectid" : "353b5ccc3deb4abc8ac8291bf468f69c",
    "flavor" : "s2.large.2",
    "volumetype" : "",
    "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" : [ ],
    "publicip" : {
      "type" : "5_bgp",
      "bandwidth_size" : 5,
      "bandwidth_share_type" : "PER"
    },
    "disks" : [ {
      "index" : 0,
      "name" : "system",
      "disktype" : "",
      "size" : 40
    } ]
  }
}
```

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.4.6 Modifying a Template

Function

This API is used to modify a template.

URI

PUT /v3/vm/templates/{id}

Table 4-185 Path parameter

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

Request

Table 4-186 Request header parameter

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

Table 4-187 Request body parameters

Parameter	Mandatory	Type	Description
template	No	TemplateRequest object	Specifies the template information.

Table 4-188 [TemplateRequest](#) field description

Parameter	Mandatory	Type	Description
name	Yes	String	Specifies the template name. Minimum length: 0 characters 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	Specifies the region where the target server will reside. Minimum length: 0 characters Maximum length: 255 characters
projectid	Yes	String	Specifies the project ID. Minimum length: 0 characters Maximum length: 255 characters
target_server_name	No	String	Specifies the name of the target server. Minimum length: 0 characters Maximum length: 255 characters
availability_zone	No	String	Specifies the AZ of the target server. Minimum length: 0 characters Maximum length: 255 characters
volumetype	No	String	Specifies the disk type. The value can be: <ul style="list-style-type: none"> • SAS • SSD • SATA
flavor	No	String	Specifies the flavor of the target server. Minimum length: 0 characters Maximum length: 65,535 characters
vpc	No	VpcObject object	Specifies the VPC information.

Parameter	Mandatory	Type	Description
nics	No	Array of Nics objects	Specifies the NIC information. Multiple NICs are supported. If the target server is automatically created, enter only one NIC and set the ID to autoCreate .
security_groups	No	Array of SgObject objects	Specifies the security group information. Multiple security groups are supported. If the target server is automatically created, enter only one security group and set the ID to autoCreate .
publicip	No	PublicIp object	Specifies the information about the public IP address that will be used for migration.
disk	No	Array of TemplateDisk objects	Specifies the disk information.
data_volume_type	No	String	Specifies the data disk type. The value can be: <ul style="list-style-type: none"> • SAS • SSD • SATA
target_password	No	String	Specifies the password for logging in to the target server. Minimum length: 0 characters Maximum length: 1,024 characters

Table 4-189 VpcObject field description

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

Parameter	Mandatory	Type	Description
name	Yes	String	Specifies the VPC name. Minimum length: 1 character Maximum length: 255 characters
cidr	No	String	Specifies the VPC CIDR block. The default value is 192.168.0.0/16 . Minimum length: 1 character Maximum length: 255 characters

Table 4-190 Nics field description

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

Table 4-191 SgObject field description

Parameter	Mandatory	Type	Description
id	Yes	String	Specifies the security group ID. Minimum length: 0 characters Maximum length: 255 characters
name	Yes	String	Specifies the security group name. Minimum length: 0 characters Maximum length: 255 characters

Table 4-192 PublicIp field description

Parameter	Mandatory	Type	Description
type	Yes	String	Specifies the EIP type. The default value is 5_bgp . Minimum length: 0 characters Maximum length: 255 characters
bandwidth_size	Yes	Integer	Specifies the bandwidth size in Mbit/s. The minimum increment for bandwidth adjustment varies depending on the bandwidth range. The details are as follows: The minimum increment is 1 Mbit/s if the allowed bandwidth ranges from 0 Mbit/s to 300 Mbit/s (with 300 Mbit/s included). The minimum increment is 50 Mbit/s if the allowed bandwidth ranges from 300 Mbit/s to 1,000 Mbit/s. The minimum increment is 500 Mbit/s if the allowed bandwidth is greater than 1,000 Mbit/s. Minimum value: 1 Maximum value: 2000

Table 4-193 TemplateDisk field description

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

Response

None

Example Request

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

PUT <https://{endpoint}/v3/vm/templates/{id}/6874cb49-48bb-4875-975d-4bca464d8472>

```
{
  "template" : {
    "name" : "test1025",
    "region" : "region",
    "target_server_name" : "",
    "availability_zone" : "availability_zone",
    "volumetype" : "",
    "vpc" : {
      "id" : "a1f9de64-bf00-4c4f-8c97-ebc65f9e1e2e",
      "name" : "vpc-testcloud"
    },
    "security_groups" : [ ],
    "nics" : [ {
      "id" : "04ba310f-34df-4df3-9385-11552aafff03",
      "name" : "subnet-testcloud(192.168.0.0/24)",
      "cidr" : "192.168.0.0/24",
      "ip" : ""
    } ],
    "flavor" : ""
  }
}
```

```
}  
}
```

Example Response

None

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.5 Migration Project Management

4.5.1 Creating a Migration Project

Function

Creating a Migration Project

Constraints

The migration project name must be unique.

URI

POST /v3/migprojects

Request

Table 4-194 Request header parameter

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

Table 4-195 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Specifies the migration project name. Minimum length: 0 characters Maximum length: 255 characters
description	No	String	Describes the migration project. Minimum length: 0 characters Maximum length: 255 characters
isdefault	No	Boolean	Specifies whether the migration project is the default project. Default value: false
region	Yes	String	Specifies the region where the project resides. Minimum length: 0 characters Maximum length: 255 characters
start_target_server	No	Boolean	Specifies whether to start the target server after the migration. Default value: true
speed_limit	No	Integer	Specifies the migration rate limit, in Mbit/s. Minimum value: 0 Maximum value: 10000
use_public_ip	Yes	Boolean	Specifies whether to use a public IP address for migration. Default value: true
exist_server	Yes	Boolean	Specifies whether to use an existing ECS as the target server. Default value: true

Parameter	Mandatory	Type	Description
type	Yes	String	Specifies the migration project type. Minimum length: 0 characters Maximum length: 255 characters The value can be: <ul style="list-style-type: none"> • MIGRATE_BLOCK • MIGRATE_FILE
enterprise_project	No	String	Specifies the enterprise project name. Default value: default Minimum length: 0 characters Maximum length: 255 characters
syncing	Yes	Boolean	Specifies whether to perform a continuous synchronization after the first replication or synchronization. Default value: false

Response

Status code: 200

Table 4-196 Response body parameters

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

Example Request

Create 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,
"jsdefault" : 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

See [Error Codes](#).

4.5.2 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.

URI

GET /v3/migprojects

Table 4-197 Query parameters

Parameter	Mandatory	Type	Description
limit	No	Integer	Specifies the number of migration projects recorded on each page Minimum value: 0 Maximum value: 100 Default value: 50

Parameter	Mandatory	Type	Description
offset	No	Integer	Specifies the offset. Minimum value: 0 Maximum value: 65535 Default value: 0

Request

Table 4-198 Request header parameter

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

Response

Status code: 200

Table 4-199 Response body parameters

Parameter	Type	Description
count	Integer	Specifies the number of queried migration projects. Minimum value: 0 Maximum value: 2147483647
migprojects	Array of MigprojectsResponseBody objects	Specifies the details of the queried migration projects.

Table 4-200 MigprojectsResponseBody field description

Parameter	Type	Description
id	String	Specifies the migration project ID Minimum length: 0 characters Maximum length: 255 characters
name	String	Specifies the migration project name. Minimum length: 0 characters Maximum length: 255 characters
use_public_ip	Boolean	Specifies whether to use a public IP address for migration.
isdefault	Boolean	Specifies whether the migration project is the default project.
start_target_server	Boolean	Specifies whether to start the target server after the migration.
region	String	Specifies the region where the project resides. Minimum length: 0 characters Maximum length: 255 characters
speed_limit	Integer	Specifies the migration rate limit configured in the project. The unit is Mbit/s. Minimum value: 0 Maximum value: 10000
exist_server	Boolean	Specifies whether there are servers in the migration project.
description	String	Describes the migration project. Minimum length: 0 characters Maximum length: 255 characters
type	String	Specifies the default migration type of the migration project. The value can be: <ul style="list-style-type: none"> ● MIGRATE_BLOCK ● MIGRATE_FILE
enterprise_project	String	Specifies the name of the enterprise project to which the migration project belongs. Minimum length: 0 characters Maximum length: 255 characters
syncing	Boolean	Specifies whether to perform a continuous synchronization after the full replication is complete.

Example Request

Obtain the list of migration projects.

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

Example Response

Status code: 200

A list of migration projects is obtained successfully.

```
{
  "count" : 6,
  "migprojects" : [ {
    "id" : "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" : "",
    "template" : null,
    "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" : "",
    "template" : null,
    "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" : "",
    "template" : null,
    "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" : "",
    "template" : null,
    "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" : "",
    "template" : null,
    "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" : "",
    "template" : null,
    "type" : "MIGRATE_BLOCK",
    "enterprise_project" : "defalut"
  }
]

```

Status Codes

Status Code	Description
200	A list of migration projects is obtained successfully.

Error Codes

See [Error Codes](#).

4.5.3 Querying Details About a Migration Project with a Specified ID

Function

This API is used to query details about a migration project with a specified ID.

URI

GET /v3/migprojects/{mig_project_id}

Table 4-201 Path parameter

Parameter	Mandatory	Type	Description
mig_project_id	Yes	String	Specifies the migration project ID. Minimum length: 0 characters Maximum length: 255 characters

Request

Table 4-202 Request header parameter

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

Response

Status code: 200

Table 4-203 Response body parameters

Parameter	Type	Description
name	String	Specifies the migration project name. Minimum length: 0 characters Maximum length: 255 characters
description	String	Describes the migration project. Minimum length: 0 characters Maximum length: 255 characters
isdefault	Boolean	Specifies whether the migration project is the default project. Default value: false

Parameter	Type	Description
region	String	Specifies the region where the project resides. Minimum length: 0 characters Maximum length: 255 characters
start_target_server	Boolean	Specifies whether to start the target server after the migration. Default value: true
speed_limit	Integer	Specifies the migration rate limit, in Mbit/s. Minimum value: 0 Maximum value: 10000
use_public_ip	Boolean	Specifies whether to use a public IP address for migration. Default value: true
exist_server	Boolean	Specifies whether to use an existing ECS as the target server. Default value: true
type	String	Specifies the migration project type. The value can be: <ul style="list-style-type: none"> • MIGRATE_BLOCK • MIGRATE_FILE
enterprise_project	String	Specifies the enterprise project name. Default value: default Minimum length: 0 characters Maximum length: 255 characters
syncing	Boolean	Specifies whether to perform a continuous synchronization after the first replication or synchronization. Default value: false

Example Request

Query 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

See [Error Codes](#).

4.5.4 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.

URI

DELETE /v3/migprojects/{mig_project_id}

Table 4-204 Path parameter

Parameter	Mandatory	Type	Description
mig_project_id	Yes	String	Specifies the ID of the migration project to be deleted. Minimum length: 0 characters Maximum length: 255 characters

Request

Table 4-205 Request header parameter

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

Response

None

Example Request

Delete the 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

See [Error Codes](#).

4.5.5 Modifying a Migration Project

Function

This API is used to modify a migration project.

URI

PUT /v3/migprojects/{mig_project_id}

Table 4-206 Path parameter

Parameter	Mandatory	Type	Description
mig_project_id	Yes	String	Specifies the migration project ID. Minimum length: 0 characters Maximum length: 255 characters

Request

Table 4-207 Request header parameter

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

Table 4-208 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Specifies the migration project name. Minimum length: 0 characters Maximum length: 255 characters

Parameter	Mandatory	Type	Description
description	No	String	Describes the migration project. Minimum length: 0 characters Maximum length: 255 characters
isdefault	No	Boolean	Specifies whether the migration project is the default project. Default value: false
region	Yes	String	Specifies the region where the project resides. Minimum length: 0 characters Maximum length: 255 characters
start_target_server	No	Boolean	Specifies whether to start the target server after the migration. Default value: true
speed_limit	No	Integer	Specifies the migration rate limit, in Mbit/s. Minimum value: 0 Maximum value: 10000
use_public_ip	Yes	Boolean	Specifies whether to use a public IP address for migration. Default value: true
exist_server	Yes	Boolean	Specifies whether to use an existing ECS as the target server. Default value: true
type	Yes	String	Specifies the migration project type. The value can be: <ul style="list-style-type: none"> ● MIGRATE_BLOCK ● MIGRATE_FILE

Parameter	Mandatory	Type	Description
enterprise_project	No	String	Specifies the enterprise project name. Default value: default Minimum length: 0 characters Maximum length: 255 characters
syncing	Yes	Boolean	Specifies whether to perform a continuous synchronization after the first replication or synchronization. Default value: false

Response

None

Example Request

Modify 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

None

Status Codes

Status Code	Description
200	The migration project has been modified successfully.

Error Codes

See [Error Codes](#).

4.5.6 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.

URI

PUT /v3/migprojects/{mig_project_id}/default

Table 4-209 Path parameter

Parameter	Mandatory	Type	Description
mig_project_id	Yes	String	Specifies the migration project ID Minimum length: 0 characters Maximum length: 255 characters

Request

Table 4-210 Request header parameter

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

Response

None

Example Request

Change the default migration project to **137224b7-8d7c-4919-b33e-ed159778xxx**.

```
PUT https://{endpoint}/v3/migprojects/137224b7-8d7c-4919-b33e-ed159778xxx/default
```

Example Response

None

Status Codes

Status Code	Description
200	The default migration project has been changed successfully.

Error Codes

See [Error Codes](#).

5 Out-of-Date APIs

5.1 Source Server Management

5.1.1 Reporting the Basic Information About the Source Server

Function

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

 **NOTE**

This API is automatically called by the migration Agent to report source server information to SMS. You do not need to make calls to this API.

URI

POST /v1/sms/sources

Request

Request parameters

For details about the request parameters, see [Table 5-1](#).

Table 5-1 Request parameters

Parameter	Mandatory	Type	Description
ip	Yes	String	Specifies the IP address of the source server.
os_type	Yes	String	Specifies the OS type of the source server. The value can be WINDOWS or LINUX .

Parameter	Mandatory	Type	Description
os_version	Yes	String	Specifies the OS version in the SMS style, for example, WINDOWS2008_64BIT and REDHAT_5_3_32BIT.
name	Yes	String	Specifies the name of the source server.
hostname	Yes	String	Specifies the name displayed after you log in to the source server.
firmware	Yes	String	Specifies the boot type of the source server, for example, BIOS and UEFI .
boot_loader	Mandatory under certain conditions This parameter is mandatory when os_type is set to LINUX .	String	Specifies the OS boot type, for example, GRUB and LILO .
system_dir	Mandatory under certain conditions This parameter is mandatory when os_type is set to WINDOWS .	String	Specifies the home directory of the OS, for example, C:\\Windows\\System32 .
raw_device	Mandatory under certain conditions This parameter is mandatory when os_type is set to LINUX .	String	Specifies the list of raw devices on the source server that runs a Linux OS.

Parameter	Mandatory	Type	Description
has_rsync	Mandatory under certain conditions This parameter is mandatory when os_type is set to LINUX .	Boolean	Specifies whether rsync is contained on the source server that runs a Linux OS. The data synchronization task cannot be created when no rsync is available.
paravirtualization	Mandatory under certain conditions This parameter is mandatory when os_type is set to LINUX .	Boolean	SMS does not support migrating the para-virtualized source server.
cpu_quantity	Yes	Integer	Specifies the number of CPUs on the source server.
memory	Yes	long	Specifies the memory size of the source server.
oem_system	Mandatory under certain conditions This parameter is mandatory when os_type is set to WINDOWS .	Boolean	Specifies whether the OS is an Original Equipment Manufacture (OEM) OS. <ul style="list-style-type: none"> • true: indicates that the OS is an OEM OS. • false: indicates that the OS is not an OEM OS.
driver_files	Mandatory under certain conditions This parameter is mandatory when os_type is set to WINDOWS .	Boolean	Specifies whether the disk drive file is available. <ul style="list-style-type: none"> • true: indicates that the disk drive file is available. • false: indicates that no disk drive file is available.

Parameter	Mandatory	Type	Description
system_services	Mandatory under certain conditions This parameter is mandatory when os_type is set to WINDOWS .	Boolean	Specifies whether the snapshot service is available. <ul style="list-style-type: none"> ● true: indicates that the snapshot service is available. ● false: indicates that no snapshot service is available.
account_rights	Mandatory under certain conditions This parameter is mandatory when os_type is set to WINDOWS .	Boolean	Specifies whether the administrator permission is obtained. <ul style="list-style-type: none"> ● true: indicates that the account has the administrator permission. ● false: indicates that the account does not have administrator permission.
disks	Yes	JSON array	Specifies the disk information of the source server. For details, see Table 5-2 .
volume_groups	Mandatory under certain conditions This parameter is mandatory when os_type is set to LINUX .	JSON array	Specifies the volume group information about the source server that runs a Linux OS. If no volume group exists on the source server, the value is []. For details, see Table 5-4 .
btrfs_list	Mandatory under certain conditions This parameter is mandatory when os_type is set to LINUX .	JSON array	Specifies the Btrfs information on the source server that runs a Linux OS. If no Btrfs exists on the source server, the value is []. For details, see Table 5-6 .
networks	Yes	JSON array	Specifies the network information of the source server. For details, see Table 5-8 .

Table 5-2 disks data structure

Parameter	Mandatory	Type	Description
name	Yes	String	Specifies the disk name. Example: Disk 0, Disk 1
partition_style	Yes	String	Specifies the disk partition type, for example, MBR and GPT .
device_use	Yes	String	Specifies the disk function. <ul style="list-style-type: none"> • BOOT: indicates that the boot partition is on the disk. • OS: indicates that the system partition is on the disk.
size	Yes	long	Specifies the total disk size (byte).
used_size	Yes	long	Specifies the size of the used disk space (byte).
physical_volumes	Yes	JSON array	Specifies the physical partition information on the disk. For details, see Table 5-3 .

Table 5-3 physical_volumes data structure

Parameter	Mandatory	Type	Description
name	Yes	String	Specifies the partition name, for example, C in the Windows OS and /dev/vda1 in a Linux OS.
uuid	Mandatory under certain conditions This parameter is mandatory when os_type is set to WINDOWS .	String	Specifies the partition universally unique identifier (UUID).
device_use	Yes	String	Specifies the partition user. The value can only be OS or BOOT .
file_system	Yes	String	Specifies the file system type of the partition.

Parameter	Mandatory	Type	Description
mount_point	Mandatory under certain conditions This parameter is mandatory when os_type is set to LINUX .	String	Specifies the mount point of the file system in a Linux OS.
size	Yes	long	Specifies the total partition size.
used_size	Yes	long	Specifies the used partition size.

Table 5-4 volume_groups data structure

Parameter	Mandatory	Type	Description
id	Yes	String	Specifies the ID of the volume group on a Linux source server.
name	Yes	String	Specifies the volume group name.
size	Yes	long	Specifies the volume group size (byte).
used_size	Yes	long	Specifies the used volume group size (byte).
components	Yes	String array	Specifies the volume group information, including the disk or partition name.
logical_volumes	Yes	JSON array	Specifies information about the logical volumes. For details, see Table 5-5 .

Table 5-5 logic_volumes data structure

Parameter	Mandatory	Type	Description
name	Yes	String	Specifies the logical volume name.
size	Yes	long	Specifies the logical volume size (byte).
used_size	No	long	Specifies the used logical volume size (byte).

Parameter	Mandatory	Type	Description
free_size	No	long	Specifies the free logical volume size (byte).
file_system	Yes	String	Specifies the logical volume file system type.
mount_point	Yes	String	Specifies the mount point of the logical volume.
uuid	No	String	Specifies the UUID of the logical volume.
inode_size	Yes	int	Specifies the Inode size (byte).

Table 5-6 btrfs_list data structure

Parameter	Mandatory	Type	Description
name	Yes	String	Specifies the file system name, for example, /dev/vdb1 .
label	Yes	String	Specifies the file system tag. If no tag exists, the value is an empty string.
uuid	Yes	String	Specifies the UUID of the file system.
device	Yes	String	Specifies the device name in the Btrfs.
size	Yes	String	Specifies the data size of the file system.
nodesize	Yes	String	Specifies the size of the Btrfs node.
sectorsize	Yes	String	Specifies the sector size.
data_profile	Yes	String	Specifies the data configuration (RAID).
system_profile	Yes	String	Specifies the file system configuration (RAID).
metadata_profile	Yes	String	Specifies the metadata configuration (RAID).
global_reserve1	Yes	String	Specifies the Btrfs file system information.
g_vol_used_size	Yes	String	Specifies the used capacity of the Btrfs file system.
default_subvolid	Yes	String	Specifies the default ID of the subvolume.

Parameter	Mandatory	Type	Description
default_subvol_name	Yes	String	Specifies the default name of the subvolume.
default_subvol_mountpath	Yes	String	Specifies the default mount path of the subvolume or Btrfs file system.
subvolumn	Yes	JSON array	Specifies information about the subvolume. For details, see Table 5-7 .

Table 5-7 subvolumn data structure

Parameter	Mandatory	Type	Description
uuid	Yes	String	Specifies the parent volume UUID of the subvolume.
is_snapshot	Yes	String	Specifies whether the subvolume is snapshot.
subvol_id	Yes	String	Specifies the subvolume ID.
parent_id	Yes	String	Specifies the parent volume ID of the subvolume.
subvol_name	Yes	String	Specifies the subvolume name.
subvol_mount_path	Yes	String	Specifies the mount path of the subvolume.

Table 5-8 networks data structure

Parameter	Mandatory	Type	Description
name	Yes	String	Specifies the NIC name.
ip	Yes	String	Specifies the IP address bound to the NIC.
netmask	Yes	String	Specifies the subnet mask.
gateway	Yes	String	Specifies the gateway.
mtu	Yes	Integer	Specifies the maximum transmission unit (MTU) of the NIC.
mac	Yes	String	Specifies the MAC address.

Response

Response parameters

Table 5-9 Response parameter

Parameter	Type	Description
id	String	Specifies the source server ID reported to SMS.

Example

- Example request
 - Source server that runs a Windows OS

```
{
  "ip": "x.x.x.x",
  "os_type": "WINDOWS",
  "os_version": "WINDOWS7_64BIT",
  "name": "szxy8l003079611",
  "hostname": "szxy8l003079611",
  "firmware": "BIOS",
  "system_dir": "C:\\Windows\\System32",
  "cpu_quantity": 4,
  "memory": 17171075072,
  "cdrom_letter": "E:\\",
  "oem_system": false,
  "account_rights": true,
  "driver_files": true,
  "system_services": true,
  "disks": [{
    "name": "Disk 0",
    "partition_style": "MBR",
    "device_use": "BOOT",
    "size": 85897247744,
    "used_size": 75081272320,
    "physical_volumes": [{
      "name": "(Reserved)",
      "uuid": "\\?\\Volume{a93c494a-aaae-11e5-bc8a-806e6f6e6963}\\",
      "device_use": "BOOT",
      "file_system": "NTFS",
      "size": 104857088,
      "used_size": 26271232
    }, {
      "name": "C:\\",
      "uuid": "\\?\\Volume{a93c494b-aaae-11e5-bc8a-806e6f6e6963}\\",
      "device_use": "OS",
      "file_system": "NTFS",
      "size": 85792390656,
      "used_size": 75055001088
    }
  ]
}, {
  "name": "Disk 1",
  "device_use": "",
  "size": 214745218048,
  "used_size": 80274349056,
  "physical_volumes": [{
    "uuid": "\\?\\Volume{9111e143-aaf2-11e5-8199-88fa68b2e4ce}\\",
    "name": "D:\\",
    "device_use": "",
    "dosName": "\\Device\\HarddiskVolume3",
    "file_system": "NTFS",
    "size_per_cluster": 4096,
    "size": 109888667136,
  }
}
```

```

        "used_size": 58702257664,
        "disk_number": 1,
        "start_offset": 1048576
    }, {
        "uuid": "\\?\Volume{dc33da02-b511-11e5-ae0b-d574b5579dc9}\",
        "name": "F:\",
        "device_use": "",
        "dosName": "\\Device\\HarddiskVolume4",
        "file_system": "NTFS",
        "size_per_cluster": 4096,
        "size": 104856550912,
        "used_size": 21572091392,
        "disk_number": 1,
        "start_offset": 109889716224
    }
    ],
    "partition_style": "MBR"
}
},
"networks": [{
    "mac": "0XAC44503B8D"
}]
}
}

```

- Source server that runs a Linux OS

```

{
    "ip": "x.x.x.x",
    "os_type": "LINUX",
    "os_version": "REDHAT_5_3_32BIT",
    "name": "linux sources",
    "hostname": "sms-console",
    "cpu_quantity": 4,
    "memory": 8581140480,
    "firmware": "BIOS",
    "boot_loader": "GRUB",
    "raw_device": "",
    "has_rsync": true,
    "paravirtualization": true,
    "disks": [{
        "name": "sda",
        "partition_style": "MBR",
        "used_size": 77301869568,
        "size": 85897247744,
        "device_use": "BOOT|OS",
        "physical_volumes": [{
            "name": "sda1",
            "uuid": "\\?\Volume{a93c494a-aaae-11e5-bc8a-806e6f6e6963}\",
            "device_use": "BOOT|OS",
            "file_system": "ext3",
            "mount_point": "mountpint1",
            "size": 104857088,
            "used_size": 78585856
        }],
        "name": "sda2",
        "uuid": "\\?\Volume{a93c494b-aaae-11e5-bc8a-806e6f6e6964}\",
        "device_use": "NORMAL",
        "file_system": "ext3",
        "mount_point": "mountpint2",
        "size": 85792390656,
        "used_size": 8516792320
    }
    ],
    "name": "sdb",
    "partition_style": "MBR",
    "size": 214745218048,
    "used_size": 52823923712,
    "device_use": "NORMAL",
    "physical_volumes": [{

```

```
    "name": "sdb1",
    "uuid": "\\?\Volume{9111e143-aaf2-11e5-8199-88fa68b2e4ce}\",
    "device_use": "BOOT|OS",
    "file_system": "ext3",
    "mount_point": "mountpoint3",
    "size": 109888667136,
    "used_size": 10988866713
  }, {
    "name": "sdb2",
    "uuid": "\\?\Volume{dc33da02-b511-11e5-ae0b-d574b5579dc8}\",
    "device_use": "NORMAL",
    "file_system": "ext3",
    "mount_point": "mountpoint3",
    "size": 104856550912,
    "used_size": 83377922048
  }
]
},
{
  "btrfs_list": [],
  "network": {
    "mac": "0XAC44503B5C"
  }
}
}
```

- Example response

```
{
  "id": "8abda8635e09d185015e09d188dd0001"
}
```

Status Codes

See [Status Codes](#).

Error Codes

See [Out-of-Date Error Codes](#).

5.1.2 Querying the List of Source Servers

Function

This API is used to query the list of source servers.

URI

GET /v1/sms/sources

Request

Request parameters

For details about the request parameters, see [Table 5-10](#).

Table 5-10 Request parameters

Parameter	Mandatory	Type	Description
state	No	String	Specifies the source server status.
name	No	String	Specifies the name of the source server.
id	No	String	Specifies the source server ID.
ip	No	String	Specifies the IP address of the source server.
num_per_page	No	int	Specifies the number of source servers recorded on each page.
page_num	No	int	Specifies the page number (starting from 0).

Response

Response parameters

For details about the response parameters, see [Table 5-11](#).

Table 5-11 Response parameters

Parameter	Type	Description
count	int	Specifies the number of source servers.
source_servers	JSON array	Specifies the list of source servers. For details, see Table 5-12 .

Table 5-12 Data structure of `source_servers`

Parameter	Type	Description
id	String	Specifies the ID of the record in the SMS database.
ip	String	Specifies the IP address of the source server.
name	String	Specifies the name of the source server.
hostname	String	Specifies the name displayed after you log in to the source server.
add_date	long	Specifies the timestamp reported to SMS.

Parameter	Type	Description
os_type	String	Specifies the operating system (OS) type of the source server. The value can be WINDOWS or LINUX .
os_version	String	Specifies the OS version, for example, WINDOWS7_64BIT.
oem_system	Boolean	Specifies whether the OS is an OEM OS.
state	String	Specifies the check status of the source server. <ul style="list-style-type: none"> • CHECKING: indicates that the source server is being checked. • AVAILABLE: indicates that the source server passes the check, and the OS and data on the source server can be migrated to the cloud. • UNAVAILABLE: indicates that the source server fails to pass the check, and the OS and data on the source server cannot be migrated to the cloud.
connected	Boolean	Specifies the status of the connection between the migration Agent on the source server and the SMS server. <ul style="list-style-type: none"> • true: indicates that the source server is properly connected to the SMS server. • false: indicates that the source server is disconnected from the SMS server.
current_task	JSON	Specifies the information about tasks bound to the source server. For details, see Table 5-15 .
init_target_server	JSON	Specifies the recommended specifications of the target ECS to which data is to be migrated. For details, see Table 5-13 .

Table 5-13 Objects of `init_target_server`

Parameter	Type	Description
disks	JSON array	Specifies the recommended disk information of the target ECS. For details, see Table 5-14 .

Table 5-14 Structure members of the **disks** array

Parameter	Type	Description
name	String	Specifies the disk name.
size	long	Specifies the disk capacity (byte).
device_use	JSON	Specifies the disk function. <ul style="list-style-type: none"> • BOOT: indicates the boot disk. • OS: indicates the system disk. • NORMAL: indicates the common data disk.

Table 5-15 **current_task** information

Parameter	Type	Description
id	String	Specifies the ID of the task associated with the source server.
name	String	Specifies the name of the task associated with the source server.
state	String	Specifies the status of the task associated with the source server. <ul style="list-style-type: none"> • READY: indicates that the migration task is ready to start. • RUNNING: indicates that the migration task is being executed. • SYNCING: indicates that the incremental data is being synchronized from the source to target ECSs. • SUCCESS: indicates that the migration or synchronization task is successful. • FAIL: indicates that the migration or synchronization task fails. • ABORTING: indicating that the migration or synchronization task is being paused. • ABORT: indicates that the migration task has been stopped.

Example

- Example request
None

- Example response

```
{
  "count": 1,
  "source_servers": [
    {
      "id": "80d6d78d-3350-4c6e-92b1-3ad88b16d8d8",
      "ip": "x.x.x.x",
      "name": "first",
      "hostname": "hello",
      "add_date": 1528178836000,
      "os_type": "WINDOWS",
      "os_version": "WINDOWS7_64BIT",
      "os_description": null,
      "oem_system": false,
      "state": "UNAVAILABLE",
      "connected": false,
      "current_task": {
        "id": "dfedc7eb-cadc-4f27-ae3c-b5e4f05e1c83",
        "name": "sms_task_smssrc",
        "state": "SUCCESS"
      },
      "init_target_server": {
        "disks": [
          {
            "name": "Disk 0",
            "size": 171798691840,
            "device_use": "OS"
          },
          {
            "name": "Disk 1",
            "size": 215822106624,
            "device_use": "NORMAL"
          }
        ]
      }
    }
  ]
}
```

Status Codes

See [Status Codes](#).

Error Codes

See [Out-of-Date Error Codes](#).

5.1.3 Querying a Source Server by Server ID

Function

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

URI

GET /v1/sms/sources/{source_id}

For details about the parameter, see [Table 5-16](#).

Table 5-16 Parameter description

Parameter	Type	Mandatory	Description
source_id	String	Yes	Specifies the source server ID.

Request

N/A

Response

Response parameters

For details about the response parameters, see [Table 5-17](#).

Table 5-17 Response parameters

Parameter	Type	Description
id	String	Specifies the ID of the source server in SMS.
ip	String	Specifies the IP address of the source server.
os_type	String	Specifies the OS type of the source server. The value can only be WINDOWS or LINUX .
os_version	String	Specifies the OS version, for example, WINDOWS7_64BIT .
name	String	Specifies the name of the source server, which can be changed.
hostname	String	Specifies the name displayed after you log in to the source server.
add_date	long	Specifies the time duration used for adding information about the source server to SMS. The unit is ms.
oem_system	Boolean	Specifies whether the source server OS is an OEM OS.
state	String	Specifies the check status of the source server. <ul style="list-style-type: none"> • CHECKING: indicates that the source server is being checked. • AVAILABLE: indicates that the server passed the check, and the server data can be migrated to the cloud. • UNAVAILABLE: indicates that the check fails, and the migration cannot be performed.

Parameter	Type	Description
connected	Boolean	Specifies whether the source server is properly connected to SMS. <ul style="list-style-type: none"> • true: indicates that the source server is properly connected to SMS. • false: indicates that the source server is disconnected from SMS.
firmware	String	Specifies the boot type of the source server. The value can only be BIOS or UEFI .
cpu_quantity	Integer	Specifies the number of CPUs.
memory	long	Specifies the memory size (MB).
disks	JSON array	Specifies the disk information of the source server. For details, see Table 5-18 .
volume_groups	JSON array	Specifies the volume group information of the Linux host. For details, see Table 5-20 .
btrfs_list	JSON array	Specifies the Btrfs information on the source server that runs a Linux OS. If no Btrfs exists on the source server, the value is []. For details, see Table 5-22 .
network	JSON array	Specifies the NIC information of the source server. For details, see Table 5-24 .
checks	JSON array	Specifies the check item of the source server. For details, see Table 5-25 .
init_target_server	JSON	Specifies the recommended configurations of the target ECS. For details, see Table 5-26 .

Table 5-18 disks data structure

Parameter	Type	Description
name	String	Specifies the disk name.
partition_style	String	Specifies the disk partition type, for example, MBR and GPT .
size	long	Specifies the total disk size (byte).
used_size	long	Specifies the size of the used disk space (byte).

Parameter	Type	Description
device_use	String	Specifies the disk function. <ul style="list-style-type: none"> • BOOT: indicates that the boot partition is on the disk. • OS: indicates that the system partition is on the disk.
os_disk	Boolean	Specifies whether the disk is the system disk. <ul style="list-style-type: none"> • true: system disk • false: data disk
physical_volumes	JSON array	Specifies the physical partition information on the disk. For details, see Table 5-19 .

Table 5-19 Data structure of data elements in **physical_volumes**

Parameter	Type	Description
uuid	String	Specifies the partition UUID.
index	Integer	Specifies the serial number of the physical partition. <ul style="list-style-type: none"> • 0: first partition • 1: second partition
name	String	Specifies the partition name, for example, C in the Windows OS and /dev/vda1 in a Linux OS.
device_use	String	Specifies the partition user. The value can only be OS or BOOT .
file_system	String	Specifies the file system type of the partition.
mount_point	String	Specifies the mount point.
size	Long	Specifies the total partition size.
used_size	Long	Specifies the used partition size.

Table 5-20 **volume_groups** data structure

Parameter	Type	Description
name	String	Specifies the volume group name.
components	String	Specifies the names of the physical partition and disk that are used to create the volume group.
size	long	Specifies the total volume group size.

Parameter	Type	Description
free_size	long	Specifies the available space size (byte).
logic_volumes	JSON array	Specifies the information about logical volumes in a volume group. For details, see Table 5-21 .

Table 5-21 logic_volumes data structure

Parameter	Type	Description
name	String	Specifies the logical partition name.
size	long	Specifies the total partition size.
used_size	long	Specifies the used partition size (byte).
free_size	long	Specifies the available partition size (byte).
file_system	String	Specifies the file system type of the partition.
mount_point	String	Specifies the mount point of the logical volume.
uuid	String	Specifies the partition UUID.
inode_size	int	Specifies the file system Inode size.
block_size	int	Specifies the file system block size (byte).
block_count	long	Specifies the total number of logical partition blocks.

Table 5-22 btrfs_list data structure

Parameter	Type	Description
name	String	Specifies the file system name, for example, /dev/vdb1 .
label	String	Specifies the file system tag. If no tag exists, the value is an empty string.
uuid	String	Specifies the UUID of the file system.
device	String	Specifies the device name in the Btrfs.
default_subvol_id	String	Specifies the default ID of the subvolume.
default_subvol_name	String	Specifies the default name of the subvolume.

Parameter	Type	Description
default_subvol_mountpath	String	Specifies the default mount path of the subvolume.
subvolumn	JSON array	Specifies the subvolume information. For details, see Table 5-23 .

Table 5-23 subvolumn data structure

Parameter	Mandatory	Type	Description
uuid	Yes	String	Specifies the UUID of the parent volume of the subvolume.
is_snapshot	Yes	String	Specifies whether the subvolume is a snapshot.
subvol_id	Yes	String	Specifies the subvolume ID.
parent_id	Yes	String	Specifies the ID of the parent volume of the subvolume.
subvol_name	Yes	String	Specifies the subvolume name.
subvol_mount_path	Yes	String	Specifies the mount path of the subvolume.

Table 5-24 network data structure

Parameter	Type	Description
name	String	Specifies the NIC name.
ip	String	Specifies the IP address bound to the NIC.
netmask	String	Specifies the subnet mask.
gateway	String	Specifies the gateway.
mtu	Integer	Specifies the NIC MTU.

Table 5-25 checks data structure

Parameter	Type	Description
id	String	Specifies the check item ID.
name	String	Specifies the check item name.

Parameter	Type	Description
result	String	Specifies the check result. <ul style="list-style-type: none"> ● OK: The check is passed. ● WARN: An alarm is generated. ● ERROR: The check is not passed.
error_code	String	Specifies the error code generated for a failed check item.
error_params	Integer	Specifies the error parameter for a failed check item.

Table 5-26 `init_target_server` data structure

Parameter	Type	Description
disks	JSON array	Specifies the recommended disk information of the target ECS. For details, see Table 5-27 .

Table 5-27 Structure members of the `disks` array

Parameter	Type	Description
name	String	Specifies the disk name.
size	long	Specifies the disk capacity (byte).
device_use	String	Specifies the disk function. <ul style="list-style-type: none"> ● OS: indicates that the disk is the system disk. ● NORMAL: indicates that the disk is the data disk.

Example

- Example request
None
- Example response
 - Response when the source server runs a Windows OS

```
{
  "id": "f36fa247-ac20-48b7-ba80-941b31d7718c",
  "ip": "x.x.x.x",
  "name": "szxy2",
  "hostname": "szxy2",
  "add_date": 1528675263000,
  "os_type": "WINDOWS",
  "os_version": "WINDOWS7_64BIT",
  "oem_system": false,
  "state": "AVAILABLE",
  "connected": false,
}
```

```

"firmware": "BIOS",
"cpu_quantity": 4,
"memory": 17171075072,
"current_task": null,
"disks": [
  {
    "name": "Disk 0",
    "partition_style": "MBR",
    "relation_name": null,
    "size": 85897247744,
    "used_size": 85897247744,
    "device_use": "BOOT",
    "os_disk": false,
    "physical_volumes": [
      {
        "uuid": "\\?\\Volume{e36afecb-24da-11e7-b949-806e6f6e6963}\\",
        "index": 0,
        "name": "(Reserved)",
        "dos_name": null,
        "relation_name": null,
        "file_system": "NTFS",
        "size_per_cluster": 4096,
        "start_offset": 1048576,
        "total_sectors": 0,
        "hidden_sectors": 0,
        "sectors_per_track": 0,
        "start_sectors": 2048,
        "mount_point": null,
        "size": 104857088,
        "used_size": 25878016,
        "snap_mount_point": null,
        "device_use": "BOOT"
      },
      {
        "uuid": "\\?\\Volume{e36afecb-24da-11e7-b949-806e6f6e6963}\\",
        "index": 0,
        "name": "C:\\",
        "dos_name": null,
        "relation_name": null,
        "file_system": "NTFS",
        "size_per_cluster": 4096,
        "start_offset": 105906176,
        "total_sectors": 0,
        "hidden_sectors": 0,
        "sectors_per_track": 0,
        "start_sectors": 206848,
        "mount_point": null,
        "size": 85792390656,
        "used_size": 55866973696,
        "snap_mount_point": null,
        "device_use": "OS"
      }
    ]
  },
  {
    "name": "Disk 1",
    "partition_style": "MBR",
    "relation_name": null,
    "size": 214745218560,
    "used_size": 214745218560,
    "device_use": "",
    "os_disk": false,
    "physical_volumes": [
      {
        "uuid": "\\?\\Volume{e36afecd-24da-11e7-b949-806e6f6e6963}\\",
        "index": 0,
        "name": "D:\\",
        "dos_name": null,
        "relation_name": null,

```

```
"file_system": "NTFS",
"size_per_cluster": 4096,
"start_offset": 1048576,
"total_sectors": 0,
"hidden_sectors": 0,
"sectors_per_track": 0,
"start_sectors": 2048,
"mount_point": null,
"size": 214745218560,
"used_size": 128071798272,
"snap_mount_point": null,
"device_use": ""
}
]
},
"volume_groups": [],
"networks": [
{
"name": null,
"ip": null,
"netmask": null,
"gateway": null,
"mtu": 0,
"mac": "0XB93064096C2C"
}
],
"checks": [
{
"id": 20749,
"params": [
""
],
"name": "OS_VERSION",
"result": "OK",
"error_code": null,
"error_params": ""
},
{
"id": 20756,
"params": [
""
],
"name": "FIRMWARE",
"result": "OK",
"error_code": null,
"error_params": ""
},
{
"id": 20763,
"params": [
""
],
"name": "CPU",
"result": "OK",
"error_code": null,
"error_params": ""
},
{
"id": 20770,
"params": [
""
],
"name": "MEMORY",
"result": "OK",
"error_code": null,
"error_params": ""
},
{
```

```

    "id": 20777,
    "params": [
        ""
    ],
    "name": "SYSTEM_ROOT",
    "result": "OK",
    "error_code": null,
    "error_params": ""
  },
  {
    "id": 20784,
    "params": [
        ""
    ],
    "name": "PARTITION_STYLE",
    "result": "OK",
    "error_code": null,
    "error_params": ""
  },
  {
    "id": 20791,
    "params": [
        ""
    ],
    "name": "FILE_SYSTEM",
    "result": "OK",
    "error_code": null,
    "error_params": ""
  },
  {
    "id": 20798,
    "params": [
        ""
    ],
    "name": "FREE_SPACE",
    "result": "OK",
    "error_code": null,
    "error_params": ""
  },
  {
    "id": 20805,
    "params": [
        ""
    ],
    "name": "OEM_SYSTEM",
    "result": "OK",
    "error_code": null,
    "error_params": ""
  },
  {
    "id": 20812,
    "params": [
        ""
    ],
    "name": "DRIVER_FILE",
    "result": "OK",
    "error_code": null,
    "error_params": ""
  },
  {
    "id": 20819,
    "params": [
        ""
    ],
    "name": "SERVICE",
    "result": "OK",
    "error_code": null,
    "error_params": ""
  },
  },

```



```
{
  "id": 20826,
  "params": [
    ""
  ],
  "name": "ACCOUNT_RIGHTS",
  "result": "OK",
  "error_code": null,
  "error_params": ""
}
],
"init_target_server": null
}
```

– Response when the source server that runs a Linux OS

```
{
  "id": "45a02115-28a9-40c2-8604-0abfc9889c9d",
  "ip": "192.168.0.151",
  "name": "novalocal",
  "hostname": null,
  "add_date": 1532658611000,
  "os_type": "LINUX",
  "os_version": "CENTOS_7_2_64BIT",
  "oem_system": false,
  "state": "AVAILABLE",
  "connected": false,
  "firmware": "BIOS",
  "cpu_quantity": 2,
  "memory": 4,
  "current_task": null,
  "disks": [
    {
      "name": "/dev/xvda",
      "relation_name": null,
      "partition_style": "MBR",
      "size": 42949672960,
      "used_size": 42948606976,
      "device_use": "NORMAL",
      "os_disk": false,
      "physical_volumes": [
        {
          "uuid": null,
          "index": 0,
          "name": "/dev/xvda1",
          "device_use": "NORMAL",
          "file_system": "ext3",
          "mount_point": "/",
          "size": 42948606976,
          "used_size": 2853855232
        }
      ]
    }
  ],
  {
    "name": "/dev/xvdb",
    "relation_name": null,
    "partition_style": "MBR",
    "size": 10737418240,
    "used_size": 6442450944,
    "device_use": "NORMAL",
    "os_disk": false,
    "physical_volumes": [
      {
        "uuid": null,
        "index": 0,
        "name": "/dev/xvdb1",
        "device_use": "NORMAL",
        "file_system": "swap",
        "mount_point": "",
        "size": 1073741824,
        "used_size": 1073741824
      }
    ]
  }
}
```

```
    },
    {
      "uuid": null,
      "index": 0,
      "name": "/dev/xvdb2",
      "device_use": "VOLUME_GROUP",
      "file_system": "LVM2_member",
      "mount_point": "",
      "size": 5368709120,
      "used_size": 5368709120
    }
  ]
},
{
  "name": "/dev/xvdc",
  "relation_name": null,
  "partition_style": "MBR",
  "size": 10737418240,
  "used_size": 10737418240,
  "device_use": "VOLUME_GROUP",
  "os_disk": false,
  "physical_volumes": []
}
],
"btrfs_list": [],
"volume_groups": [
  {
    "name": "vgtest",
    "components": "/dev/xvdb2;/dev/xvdc",
    "size": 16106127360,
    "free_size": 0,
    "logical_volumes": [
      {
        "name": "/dev/mapper/vgtest-data",
        "size": 1073741824,
        "used_size": 3047424,
        "file_system": "ext4",
        "mount_point": "/data",
        "uuid": null,
        "inode_size": 256,
        "block_size": 0,
        "block_count": 0
      }
    ]
  }
]
},
"networks": [
  {
    "name": "eth0",
    "ip": "192.168.0.151",
    "netmask": null,
    "gateway": null,
    "mtu": 0,
    "mac": "fa:16:3e:35:97:71"
  }
]
},
"checks": [
  {
    "id": 6463,
    "params": [
      ""
    ],
    "name": "OS_VERSION",
    "result": "OK",
    "error_code": null,
    "error_params": ""
  },
  {
    "id": 6470,
```

```

"params": [
  ""
],
"name": "CPU",
"result": "OK",
"error_code": null,
"error_params": ""
},
{
  "id": 6477,
  "params": [
    ""
  ],
  "name": "MEMORY",
  "result": "OK",
  "error_code": null,
  "error_params": ""
},
{
  "id": 6484,
  "params": [
    ""
  ],
  "name": "PARAVIRTUALIZATION",
  "result": "OK",
  "error_code": null,
  "error_params": ""
},
{
  "id": 6491,
  "params": [
    ""
  ],
  "name": "FIRMWARE",
  "result": "OK",
  "error_code": null,
  "error_params": ""
},
{
  "id": 6498,
  "params": [
    ""
  ],
  "name": "BOOT_LOADER",
  "result": "OK",
  "error_code": null,
  "error_params": ""
},
{
  "id": 6505,
  "params": [
    ""
  ],
  "name": "RSYNC",
  "result": "OK",
  "error_code": null,
  "error_params": ""
},
{
  "id": 6512,
  "params": [
    ""
  ],
  "name": "RAW_DEVICES",
  "result": "OK",
  "error_code": null,
  "error_params": ""
},
{

```

```

    "id": 6519,
    "params": [
      ""
    ],
    "name": "DISK_INFO",
    "result": "OK",
    "error_code": null,
    "error_params": ""
  },
  {
    "id": 6526,
    "params": [
      ""
    ],
    "name": "PARTITION_STYLE",
    "result": "OK",
    "error_code": null,
    "error_params": ""
  },
  {
    "id": 6533,
    "params": [
      ""
    ],
    "name": "FILE_SYSTEM",
    "result": "OK",
    "error_code": null,
    "error_params": ""
  }
],
"init_target_server": {
  "disks": [
    {
      "name": "/dev/xvda",
      "size": 42949672960,
      "used_size": 42948606976,
      "device_use": "NORMAL",
      "physical_volumes": [
        {
          "uuid": null,
          "index": 0,
          "name": "/dev/xvda1",
          "device_use": "NORMAL",
          "file_system": "ext3",
          "mount_point": "/",
          "size": 42948606976,
          "used_size": 2853855232
        }
      ]
    },
    {
      "name": "/dev/xvdb",
      "size": 10737418240,
      "used_size": 6442450944,
      "device_use": "NORMAL",
      "physical_volumes": [
        {
          "uuid": null,
          "index": 0,
          "name": "/dev/xvdb1",
          "device_use": "NORMAL",
          "file_system": "swap",
          "mount_point": "",
          "size": 1073741824,
          "used_size": 1073741824
        }
      ],
      {
        "uuid": null,
        "index": 0,

```

```

    "name": "/dev/xvdb2",
    "device_use": "VOLUME_GROUP",
    "file_system": "LVM2_member",
    "mount_point": "",
    "size": 5368709120,
    "used_size": 5368709120
  }
]
},
{
  "name": "/dev/xvdc",
  "size": 10737418240,
  "used_size": 10737418240,
  "device_use": "VOLUME_GROUP",
  "physical_volumes": []
}
]
}
}

```

Status Codes

See [Status Codes](#).

Error Codes

See [Out-of-Date Error Codes](#).

5.1.4 Deleting the Source Server Information by Server ID

Function

This API is used to delete the information about 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.

URI

DELETE /v1/sms/sources/{source_id}

For details about the parameters, see [Table 5-28](#).

Table 5-28 Parameter description

Parameter	Mandatory	Description
source_id	Yes	Specifies the source server ID.

Request

None

Response

N/A

Example

- Example request
None
- Example response
None

Status Codes

See [Status Codes](#).

Error Codes

See [Out-of-Date Error Codes](#).

5.1.5 Modifying the Name of the Source Server with a Specified ID

Function

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

URI

PUT /v1/sms/sources/{source_id}

For details about the parameters, see [Table 5-29](#).

Table 5-29 Parameter description

Parameter	Mandatory	Description
source_id	Yes	Specifies the source server ID.

Request

Request parameters

For details about the request parameters, see [Table 5-30](#).

Table 5-30 Request parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Specifies the new source server name.

Response

None

Example

- Example request

```
{
  "name": "newName"
}
```
- Example response
None

Status Codes

See [Status Codes](#).

Error Codes

See [Out-of-Date Error Codes](#).

5.1.6 Deleting Information About Source Servers in Batches

Function

This API is used to delete information about multiple source servers at a time 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.

URI

POST /v1/sms/sources/delete

Request

Request parameters

For details about the request parameters, see [Table 5-31](#).

Table 5-31 Request parameters

Parameter	Mandatory	Type	Description
ids	Yes	JSON array	Specifies the collection of IDs of all source servers to be deleted.

Response

N/A

Example

- Example request

```
{
  "ids":["1","2","3"]
}
```
- Example response
 None

Status Codes

See [Status Codes](#).

Error Codes

See [Out-of-Date Error Codes](#).

5.2 Task Management

5.2.1 Reporting Data Migration Progress

Function

This API is called the migration Agent installed on the source server during data migration to report the migration progress to the SMS server.

NOTE

This API is automatically called by the migration Agent to report migration progress to SMS. You do not need to make calls to this API.

URI

PUT /v1/sms/tasks/{task_id}/progress

For details about the parameters, see [Table 5-32](#).

Table 5-32 Parameter description

Parameter	Mandatory	Description
task_id	Yes	Specifies the task ID.

Request

Request parameters

For details about the request parameters, see [Table 5-33](#).

Table 5-33 Request parameters

Parameter	Mandatory	Type	Description
subtask_name	Yes	String	Specifies the subtask name.
progress	Yes	Integer	Specifies the progress of a subtask. The value is an integer ranging from 0 to 100.
migrate_speed	No	Double	Specifies the migration speed in MByte/s.

Response

None

Example

- Example request


```
{
  "subtask_name": "ATTACH_AGENT_IMAGE",
  "progress": 100
}
```
- Example response

None

Status Codes

See [Status Codes](#).

Error Codes

See [Out-of-Date Error Codes](#).

5.2.2 Creating a Migration Task

Function

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

URI

POST /v1/sms/tasks

Request

Request parameters

For details about the request parameters, see [Table 5-34](#).

Table 5-34 Request parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Specifies the task name (user-defined). The parameter value consists of 4 to 64 characters, including letters, digits, underscores (_), hyphens (-), periods (.).
type	Yes	String	Specifies the task type. <ul style="list-style-type: none"> ● MIGRATE_FILE: indicates the file-level migration. ● MIGRATE_BLOCK: indicates the block-level migration.
os_type	Yes	String	Specifies the OS type. The value can only be WINDOWS or LINUX .
priority	No	int	Specifies the process priority. <ul style="list-style-type: none"> ● 0: low ● 1: standard (default) ● 2: high
speed_limit	No	int	Specifies the migration rate limit (in MB). The default value is 0 , indicating that the migration rate is not limited.
start_target_server	No	Boolean	Specifies whether to start the target ECS after the migration. <ul style="list-style-type: none"> ● true (default): indicates that the target ECS will be started after the migration. ● false: indicates that the target ECS will be stopped after the migration.

Parameter	Mandatory	Type	Description
uninstall_agent	No	Boolean	Specifies whether to automatically uninstall the migration Agent on the source server. <ul style="list-style-type: none"> • true: indicates that the migration Agent will be uninstalled automatically from the source server after the migration. • false (default): indicates that the migration Agent will not be uninstalled automatically from the source server after the migration.
source_server	Yes	JSON	Specifies the source server information. For details, see Table 5-35 .
target_server	Yes	JSON	Specifies the target ECS information. For details, see Table 5-36 .
migration_ip	Yes	String	Specifies the IP address of the target ECS. <ul style="list-style-type: none"> • Enter the elastic IP address if the migration network type is Internet. • Enter a private IP address if the migration network type is a private line or VPN.
region_name	Yes	String	Specifies the region name of the target ECS.
region_id	Yes	String	Specifies the region ID of the target ECS.
project_name	Yes	String	Specifies the name of the project which the target ECS belongs to.
project_id	Yes	String	Specifies the ID of the project which the target ECS belongs to. For details, see Obtaining a Project ID .
vm_template_id	No	String	Specifies the template ID.
smn_info	No	JSON	Specifies the SMN service information. For details, see Table 5-41 .

Table 5-35 source_server information

Parameter	Mandatory	Type	Description
id	Yes	String	Specifies the source server ID.

Table 5-36 target_server information

Parameter	Mandatory	Type	Description
vm_id	Yes	String	Specifies the target ECS ID.
name	Mandatory under certain conditions	String	Specifies the name of the target ECS. NOTE <ul style="list-style-type: none"> This parameter is mandatory when an existing VM is selected. This parameter is optional when you select to create an ECS during migration.
disks	Mandatory under certain conditions	JSON array	Specifies the disk information. For details, see Table 5-39 . NOTE <ul style="list-style-type: none"> This parameter is mandatory when an existing VM is selected. This parameter is optional when you select to create an ECS during migration.
btrfs_list	Yes	JSON array	Specifies the Btrfs information. For details, see Table 5-37 .

Table 5-37 btrfs_list data structure

Parameter	Type	Description
name	String	Specifies the file system name, for example, <code>/dev/vdb1</code> .
label	String	Specifies the file system tag. If no tag exists, the value is an empty string.
uuid	String	Specifies the UUID of the file system.
device	String	Specifies the device name in the Btrfs.
default_subvol_id	String	Specifies the default ID of the subvolume.
default_subvol_name	String	Specifies the default name of the subvolume.
default_subvol_mountpath	String	Specifies the default mount path of the subvolume.
subvolumn	JSON array	Specifies the subvolume information. For details, see Table 5-38 .

Table 5-38 subvolumn data structure

Parameter	Mandatory	Type	Description
uuid	Yes	String	Specifies the UUID of the parent volume of the subvolume.
is_snapshot	Yes	String	Specifies whether the subvolume is a snapshot.
subvol_id	Yes	String	Specifies the subvolume ID.
parent_id	Yes	String	Specifies the ID of the parent volume of the subvolume.
subvol_name	Yes	String	Specifies the subvolume name.
subvol_mount_path	Yes	String	Specifies the mount path of the subvolume.

Table 5-39 disks information in **target_server**

Parameter	Mandatory	Type	Description
name	Yes	String	Specifies the disk name.
disk_id	Yes	String	Specifies the ID of the EVS volume corresponding to the disk.
size	Yes	long	Specifies the disk size.
physical_volumes	Yes	JSON array	Specifies the partition information after the disk is migrated. For details, see Table 5-40 .

Table 5-40 physical_volumes information

Parameter	Mandatory	Type	Description
name	Yes	String	Specifies the partition name. <ul style="list-style-type: none"> • C in the Windows OS • sd1 in the Linux OS
size	Yes	long	Specifies the partition size (byte).

Table 5-41 smn_info information

Parameter	Mandatory	Type	Description
topic_urn	Yes	String	Specifies the topic URN.
trigger_conditions	Yes	String	Specifies the triggering condition for sending SMN messages. The value can be SUCCESS , FAIL , SUCCESS , or FAIL .
language	Yes	String	Specifies the Language option.
topic_name	Yes	String	Specifies the topic name.

Response

Response parameters

For details about the response parameter, see [Table 5-42](#).

Table 5-42 Response parameter

Parameter	Type	Description
id	String	Specifies the task ID.

Example

- Example request
 - Creating a task to migrate a source server that runs a Windows OS

```
{
  "name": "Windows Migration",
  "type": "MIGRATE_BLOCK",
  "priority": "1",
  "speed_limit": "0",
  "start_target_server": "true",
  "os_type": "WINDOWS",
  "migration_ip": "x.x.x.x",
  "region_name": "UAE-Abu Dhabi",
  "region_id": "ae-ad-1",
  "region_name": "UAE-Abu Dhabi",
  "project_id": "1222222111111212121",
  "vm_template_id": "aaaa-bbbbb",
  "source_server": {
    "id": "35ef9d7a-b8e4-4126-9588-116952749de4"
  },
  "target_server": {
    "vm_id": "e198f4cc-e51a-43df-83d8-79bd41e00bed",
    "disks": [
      {
        "name": "Disk 0",
        "disk_id": "e198f4cc-e51a-43df-1234-79bd41e00bed",
        "size": "85897247744",
        "physical_volumes": [
          {
            "name": "(Reserved)",
            "size": "104857088"
          }
        ]
      }
    ]
  }
}
```

```
    },
    {
      "name": "C:\\",
      "size": "85792390656"
    }
  ]
},
{
  "name": "Disk 1",
  "disk_id": "e198f4cc-1234-43df-1234-79bd41e00bed",
  "size": "214745218048",
  "physical_volumes": [
    {
      "name": "D:\\",
      "size": "109888667136"
    },
    {
      "name": "F:\\",
      "size": "104856550912"
    }
  ]
}
]
```

– Creating a task to migrate a source server that runs a Linux OS

- Example response

```
{
  "id": "170606111111"
}
```

Status Codes

See [Status Codes](#).

Error Codes

See [Out-of-Date Error Codes](#).

5.2.3 Starting a Migration Task

Function

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

URI

POST /v1/sms/tasks/{id}/action

For details about the parameter, see [Table 5-43](#).

Table 5-43 Parameter description

Parameter	Mandatory	Description
id	Yes	Task ID. For details, see the returned ID in Creating a Migration Task .

Request

Request parameters

For details about the request parameter, see [Table 5-44](#).

Table 5-44 Request parameter

Parameter	Mandatory	Type	Description
operation	Yes	String	The value is fixed at start when a task is started.

Response

None

Example

- Example request


```
{
  "operation": "start"
}
```
- Example response

None

Status Codes

See [Status Codes](#).

Error Codes

See [Out-of-Date Error Codes](#).

5.2.4 Stopping a Migration Task

Function

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

URI

POST /v1/sms/tasks/{id}/action

For details about the parameter, see [Table 5-45](#).

Table 5-45 Parameter description

Parameter	Mandatory	Description
id	Yes	Task ID. For details, see the returned ID in Creating a Migration Task .

Request

Request parameters

For details about the request parameter, see [Table 5-46](#).

Table 5-46 Request parameter

Parameter	Mandatory	Type	Description
operation	Yes	String	The value is fixed at stop when a task is stopped.

Response

None

Example

- Example request


```
{
  "operation": "stop"
}
```
- Example response

None

Status Codes

See [Status Codes](#).

Error Codes

See [Out-of-Date Error Codes](#).

5.2.5 Uploading Migration Logs

Function

This API is used to upload migration logs to the SMS technical support.

URI

POST /v1/sms/tasks/{id}/action

For details about the parameter, see [Table 5-47](#).

Table 5-47 Parameter description

Parameter	Mandatory	Description
id	Yes	Task ID. For details, see the returned ID in Creating a Migration Task .

Request

Request parameters

For details about the request parameter, see [Table 5-48](#).

Table 5-48 Request parameter

Parameter	Mandatory	Type	Description
operation	Yes	String	The value is fixed to collect_log during log collection.
params	Yes	JSON	Specifies the OBS bucket and directory to which logs are uploaded. For details, see Table 5-49 .

Table 5-49 params data structure

Parameter	Mandatory	Type	Description
bucket	Yes	String	Specifies the OBS bucket name.
object	Yes	String	Specifies the path for storing logs. If this parameter is left blank, logs are stored in the root directory of the OBS bucket.

Response

None

Example

- Example request

```
{
  "operation": "collect_log",
  "params": {
    "bucket": "logbucket",
    "object": "logfile"
  }
}
```

- Example response
None

Status Codes

See [Status Codes](#).

Error Codes

See [Out-of-Date Error Codes](#).

5.2.6 Querying the List of Migration Tasks

Function

This API is used to query the migration task list.

URI

GET /v1/sms/tasks

Request

Request parameters

For details about the request parameters, see [Table 5-50](#).

Table 5-50 Request parameters

Parameter	Mandatory	Type	Description
state	No	String	Specifies the task status. The value can be any of the following: <ul style="list-style-type: none"> ● READY: indicates that the migration task is ready to start. ● RUNNING: indicates that the migration task is being executed. ● SYNCING: indicates that the incremental data is being synchronized from the source to target ECSs. ● ABORTING: indicates that the migration task is being paused. ● ABORT: indicates that the migration task is paused. ● MIGRATE_FAIL: indicates that the migration fails. ● MIGRATE_SUCCESS: indicates that the migration succeeds. ● SYNC_FAIL: indicates that the synchronization fails. ● SYNC_SUCCESS: indicated that the synchronization succeeds.
name	No	String	Specifies the task name.
id	No	String	Specifies the task ID.
source_server_id	No	String	Specifies the source server ID.
num_per_page	No	int	Specifies the number of tasks recorded on each page.
page_num	No	int	Specifies the page number (starting from 0).

Response

Response parameters

For details about the response parameters, see [Table 5-51](#).

Table 5-51 Response parameters

Parameter	Type	Description
count	int	Specifies the total number of tasks that meet the query criteria.
tasks	JSON array	Specifies the task list. For details, see Table 5-52 .

Table 5-52 tasks structure

Parameter	Type	Description
id	String	Specifies the task ID.
name	String	Specifies the task name.
type	String	Specifies the task type. <ul style="list-style-type: none">• MIGRATE_FILE: indicates the file-level migration.• MIGRATE_BLOCK: indicates the block-level migration.
os_type	String	<ul style="list-style-type: none">• WINDOWS: indicates that the source server runs a Windows OS.• LINUX: indicates that the source server runs a Linux OS.

Parameter	Type	Description
state	String	<p>Specifies the task status. The value can be any of the following:</p> <ul style="list-style-type: none"> ● READY: indicates that the migration task is ready to start. ● RUNNING: indicates that the migration task is being executed. ● SYNCING: indicates that the incremental data is being synchronized from the source to target ECSs. ● ABORTING: indicates that the migration task is being paused. ● ABORT: indicates that the migration task is paused. ● MIGRATE_FAIL: indicates that the migration fails. ● MIGRATE_SUCCESS: indicates that the migration is successful. ● SYNC_FAIL: indicates that the synchronization fails. ● SYNC_SUCCESS: indicated that the synchronization succeeds.
connected	Boolean	<p>Specifies the connection status.</p> <ul style="list-style-type: none"> ● true: indicates that the migration task is properly connected to SMS. ● false: indicates that the migration task is disconnected from SMS.
estimate_completion_time	long	Specifies the estimated completion time.
create_date	long	Specifies the task creation time.
priority	int	<p>Specifies the process priority.</p> <ul style="list-style-type: none"> ● 0: low ● 1: standard (default) ● 2: high
speed_limit	int	<p>Specifies the migration rate limit (in MB). The default value is 0, indicating that the migration rate is not limited.</p>
migrate_speed	float	Specifies the migration rate.

Parameter	Type	Description
start_target_server	Boolean	Specifies the status of the target ECS after the migration is complete. <ul style="list-style-type: none">• true (default): indicates that the target ECS will be started after the migration.• false: indicates that the target ECS will be stopped after the migration.
error_json	String	Specifies the task failure cause.
total_time	long	Specifies the total task duration (in ms).
migration_ip	String	Specifies the IP address of the target ECS. <ul style="list-style-type: none">• Enter the elastic IP address if the migration network type is Internet.• Enter a private IP address if the migration network type is a private line or VPN.
sub_tasks	JSON array	Specifies the list of sub tasks. For details, see Table 5-53 .

Parameter	Type	Description
log_collect_status	String	<p>Specifies the log collection operating status.</p> <p>INIT: indicates that the system is ready to collect logs.</p> <p>TELL_AGENT_TO_COLLECT: indicates that the system is instructing the migration Agent to collect logs.</p> <p>WAIT_AGENT_COLLECT_ACK: indicates that the system is waiting for the migration Agent to feed back the collection result.</p> <p>AGENT_COLLECT_FAIL: indicates that the migration Agent fails to collect logs.</p> <p>AGENT_COLLECT_SUCCESS: indicates that the migration Agent collects logs successfully.</p> <p>WAIT_SERVER_COLLECT: indicates that the system is waiting for SMS to dump logs.</p> <p>SERVER_COLLECT_FAIL: indicates that SMS fails to dump logs.</p> <p>SERVER_COLLECT_SUCCESS: indicates that SMS dump logs successfully.</p> <p>TELL_AGENT_RESET_ACL: indicates that the system is instructing the migration Agent to cancel authorization granted to the SMS service to access logs.</p> <p>WAIT_AGENT_RESET_ACL_ACK: indicates that the system is waiting for the migration Agent to confirm whether log collection is complete.</p> <p>SUCCESS: indicates that log collection is completed.</p>
source_server	JSON	Specifies the source server information. For details, see Table 5-54 .
target_server	JSON	Specifies the target ECS information. For details, see Table 5-55 .

Table 5-53 sub_tasks structure

Parameter	Type	Description
id	long	Specifies the subtask ID.

Parameter	Type	Description
name	String	Specifies the subtask name. <ul style="list-style-type: none"> ● CREATE_CLOUD_SERVER: Create an ECS during the migration. ● SSL_CONFIG: Set a secure transmission channel. ● ATTACH_AGENT_IMAGE: Attach an agent image. ● DETTACH_AGENT_IMAGE: Detach an agent image. ● FORMAT_DISK_LINUX: Format a Linux partition. ● FORMAT_DISK_WINDOWS: Format a Windows partition. ● MIGRATE_LINUX_FILE: Migrate Linux file-level data. ● MIGRATE_WINDOWS_BLOCK: Migrate Windows block-level data. ● SYNC_LINUX_FILE: Synchronize Linux file-level data. ● SYNC_WINDOWS_BLOCK: Synchronize Windows block-level data. ● CONFIGURE_LINUX: Modify Linux configurations. ● CONFIGURE_WINDOWS: Modify Windows configurations.
progress	int	Specifies the sub task progress.
start_date	long	Specifies the sub task start time.
end_date	long	Specifies the sub task end time.
totalTime	long	Specifies the total task duration (in ms).

Table 5-54 source_server structure

Parameter	Type	Description
id	String	Specifies the ID of the source server in SMS.
ip	String	Specifies the IP address of the source server.
name	String	Specifies the name of the source server, which can be changed after added. The default value is the same as that of hostname .

Parameter	Type	Description
os_type	String	<ul style="list-style-type: none"> • WINDOWS: indicates that the source server runs a Windows OS. • LINUX: indicates that the source server runs a Linux OS.
os_version	String	Specifies the OS version. For example, the version can be WINDOWS7_64BIT .
oem_system	Boolean	Specifies whether the source server OS is an OEM OS.
state	String	Specifies the check status of the source server. <ul style="list-style-type: none"> • CHECKING: indicates that the source server is being checked. • AVAILABLE: indicates that the check is passed, and the server data can be migrated. • UNAVAILABLE: indicates that the check fails, and the migration cannot be performed.

Table 5-55 target_server structure

Parameter	Type	Description
id	String	Specifies the ID of the source server in SMS.
vm_id	String	Specifies the ID of the target ECS.
name	String	Specifies the name of the target ECS.
ip	String	Specifies the private IP address of the target ECS.
os_type	String	Specifies the OS type of the target ECS. <ul style="list-style-type: none"> • WINDOWS: indicates that the target ECS runs a Windows OS. • LINUX: indicates that the target ECS runs a Linux OS.
os_version	String	Specifies the OS version of the target ECS. For example, the version can be WINDOWS7_64BIT .

Example

- Example request

```
GET v1/sms/tasks
```

- Example response

```
{
  "count":1,
  "tasks":[{"id": "90c950d7-d184-4b5e-87c0-f0bd09dfa0c1",
    "name": "taskName",
    "type": "MIGRATE_BLOCK",
    "os_type": "WINDOWS",
    "state": "RUNNING",
    "connected": true,
    "consume_time": 12733551760,
    "estimate_complete_time": 1519733551760,
    "create_date": 1519733551760,
    "auto_install_pvdriver": false,
    "allow_sync": true,
    "final_sync": false,
    "priority": 1,
    "speed_limit": 0,
    "migrate_speed": 9.644518,
    "start_target_server": true,
    "error_json": "",
    "total_time": 175848,
    "migration_ip": "X.X.X.X",
    "source_server": {
      "id": "b6bbff1f-9b43-4c60-8030-d4e1e576fea8",
      "ip": "10.159.219.7",
      "hostname": null,
      "addDate": 1519722504092,
      "os_type": "WINDOWS",
      "os_version": "WINDOWS2012_64BIT",
      "oem_system": false,
      "state": "AVAILABLE"
    },
    "target_server": {
      "id": "7f40e37c-c883-4583-afe9-4e5026f336a7",
      "ip": "x.x.x.x",
      "vm_id": "2c44c00e-6354-49e2-b36f-151284a91f6c",
      "name": "windows",
      "port": 8899,
      "os_type": "WINDOWS",
      "os_version": "WINDOWS2012_64BIT",
    },
    "sub_tasks": [{
      "id": 141,
      "name": "CREATE_CLOUD_SERVER",
      "progress": 100,
      "start_date": 1519733559435,
      "end_date": 1519733715574,
      "totalTime": 156139
    }, {
      "id": 142,
      "name": "SSL_CONFIG",
      "progress": 100,
      "start_date": 1519733715589,
      "end_date": 1519733735298,
      "totalTime": 19709
    }, {
      "id": 143,
      "name": "ATTACH_AGENT_IMAGE",
      "progress": 100,
      "start_date": 1519733559435,
      "end_date": 1519733715574,
      "totalTime": 156139
    }, {
      "id": 144,
```

```
[{"name": "FORMAT_DISK_WINDOWS",  
  "progress": 100,  
  "start_date": 1519733715589,  
  "end_date": 1519733735298,  
  "totalTime": 19709  
}, {  
  "id": 145,  
  "name": "MIGRATE_WINDOWS_BLOCK",  
  "progress": 41,  
  "start_date": 1519733735314,  
  "end_date": null,  
  "totalTime": 0  
}, {  
  "id": 146,  
  "name": "CONFIGURE_WINDOWS",  
  "progress": 0,  
  "start_date": null,  
  "end_date": null,  
  "totalTime": 0  
}, {  
  "id": 147,  
  "name": "DETTACH_AGENT_IMAGE",  
  "progress": 0,  
  "start_date": null,  
  "end_date": null,  
  "totalTime": 0  
}  
],  
}
```

Status Codes

See [Status Codes](#).

Error Codes

See [Out-of-Date Error Codes](#).

5.2.7 Querying a Migration Task by Task ID

Function

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

URI

GET /v1/sms/tasks/{task_id}

For details about the parameter, see [Table 5-56](#).

Table 5-56 Parameter description

Parameter	Mandatory	Description
task_id	Yes	Specifies the task ID.

Request

N/A

Response

Response parameters

For details about the response parameters, see [Table 5-57](#).

Table 5-57 Response parameters

Parameter	Type	Description
id	String	Specifies the task ID.
name	String	Specifies the task name.
type	String	Specifies the task type. <ul style="list-style-type: none"> • MIGRATE_FILE: indicates the file-level migration. • MIGRATE_BLOCK: indicates the block-level migration.
os_type	String	<ul style="list-style-type: none"> • WINDOWS: indicates that the source server runs a Windows OS. • LINUX: indicates that the source server runs a Linux OS.
state	String	Specifies the task status. The value can be any of the following: <ul style="list-style-type: none"> • READY: indicates that the migration task is ready to start. • RUNNING: indicates that the migration task is being executed. • SYNCING: indicates that the incremental data is being synchronized from the source to target ECSs. • ABORTING: indicates that the migration task is being paused. • ABORT: indicates that the migration task is paused. • MIGRATE_FAIL: indicates that the migration fails. • MIGRATE_SUCCESS: indicates that the migration succeeds. • SYNC_FAIL: indicates that the synchronization fails. • SYNC_SUCCESS: indicated that the synchronization succeeds.

Parameter	Type	Description
connected	Boolean	Specifies the connection status. <ul style="list-style-type: none"> • true: indicates that the migration task is properly connected to SMS. • false: indicates that the migration task is disconnected from SMS.
estimate_complete_time	long	Specifies the estimated remaining time of a migration task.
create_date	long	Specifies the task creation time.
start_date	long	Specifies the task start time.
finish_date	long	Specifies the task end time.
priority	int	Specifies the migration process priority. <ul style="list-style-type: none"> • 0: low • 1: standard (default) • 2: high
speed_limit	int	Specifies the migration rate limit (in MB). The default value is 0 , indicating that the migration rate is not limited.
migrate_speed	float	Specifies the migration rate.
start_target_server	Boolean	Specifies the status of the target ECS after the migration is complete. <ul style="list-style-type: none"> • true (default): indicates that the target ECS will be started after the migration. • false: indicates that the target ECS will be stopped after the migration.
error_json	String	Specifies the task failure cause.
total_time	long	Specifies the total task duration (in ms).
float_ip	String	Specifies the floating IP address of the target ECS.
migration_ip	String	Specifies the IP address of the target ECS. <ul style="list-style-type: none"> • Enter the elastic IP address if the migration network type is Internet. • Enter a private IP address if the migration network type is a private line or VPN.
vm_template_id	String	Specifies the template ID. For details, see the ID obtained in Querying the Template List .
region_name	String	Specifies the region name of the target ECS.

Parameter	Type	Description
region_id	String	Specifies the region ID of the target ECS.
project_name	String	Specifies the name of the project which the target ECS belongs to.
project_id	String	Specifies the ID of the project which the target ECS belongs to. For details, see Obtaining a Project ID .
sub_tasks	JSON array	Specifies the list of sub tasks. For details, see Table 5-58 .
source_server	JSON	Specifies the source server information. For details, see Table 5-59 .
target_server	JSON	Specifies the target ECS information. For details, see Table 5-60 .

Table 5-58 sub_tasks structure

Parameter	Type	Description
id	long	Specifies the subtask ID.

Parameter	Type	Description
name	String	<p>Specifies the subtask name.</p> <ul style="list-style-type: none"> • CREATE_CLOUD_SERVER: Create an ECS during the migration. • SSL_CONFIG: Set a secure transmission channel. • ATTACH_AGENT_IMAGE: Attach an agent image. • DETTACH_AGENT_IMAGE: Detach an agent image. • FORMAT_DISK_LINUX: Format a Linux partition. • FORMAT_DISK_WINDOWS: Format a Windows partition. • MIGRATE_LINUX_FILE: Migrate Linux file-level data. • MIGRATE_WINDOWS_BLOCK: Migrate Windows block-level data. • SYNC_LINUX_FILE: Synchronize Linux file-level data. • SYNC_WINDOWS_BLOCK: Synchronize Windows block-level data. • CONFIGURE_LINUX: Modify Linux configurations. • CONFIGURE_WINDOWS: Modify Windows configurations.
progress	int	Specifies the sub task progress.
start_date	long	Specifies the sub task start time.
end_date	long	Specifies the sub task end time.

Table 5-59 source_server structure

Parameter	Type	Description
id	String	Specifies the ID of the source server in SMS.
ip	String	Specifies the IP address of the source server.
name	String	Specifies the name of the source server, which can be changed after added. The default value is the same as that of hostname .

Parameter	Type	Description
os_type	String	<ul style="list-style-type: none"> • WINDOWS: indicates that the source server runs a Windows OS. • LINUX: indicates that the source server runs a Linux OS.
os_version	String	Specifies the OS version. For example, the version can be WINDOWS2008_R2_64BIT .
oem_system	Boolean	Specifies whether the source server OS is an OEM OS.
state	String	Specifies the check status of the source server. <ul style="list-style-type: none"> • CHECKING: indicates that the source server is being checked. • AVAILABLE: indicates that the check is passed, and the server data can be migrated. • UNAVAILABLE: indicates that the check fails, and the migration cannot be performed.

Table 5-60 target_server structure

Parameter	Type	Description
id	String	Specifies the ID of the source server in SMS.
vm_id	String	Specifies the ID of the target ECS.
name	String	Specifies the name of the target ECS.
ip	String	Specifies the private IP address of the target ECS server.
os_type	String	Specifies the OS type of the target ECS. <ul style="list-style-type: none"> • WINDOWS: indicates that the target ECS runs a Windows OS. • LINUX: indicates that the target ECS runs a Linux OS.
os_version	String	Specifies the OS version of the target ECS.
system_dir	String	Specifies the system directory. For example, the directory can be C:\\Windows\\System32 .
disks	JSON array	Specifies the disk information of the target ECS.
volume_group_s	JSON array	Specifies the volume group information of the target ECS.

Parameter	Type	Description
btrfs_list	JSON array	Specifies the Btrfs information of the target ECS. For details, see Table 5-61 .

Table 5-61 btrfs_list data structure

Parameter	Type	Description
name	String	Specifies the file system name, for example, <code>/dev/vdb1</code> .
label	String	Specifies the file system tag. If no tag exists, the value is an empty string.
uuid	String	Specifies the UUID of the file system.
device	String	Specifies the device name in the Btrfs.
default_subvol_id	String	Specifies the default ID of the subvolume.
default_subvol_name	String	Specifies the default name of the subvolume.
default_subvol_mountpath	String	Specifies the default mount path of the subvolume.
subvolumn	JSON array	Specifies the subvolume information. For details, see Table 5-62 .

Table 5-62 subvolumn data structure

Parameter	Mandatory	Type	Description
uuid	Yes	String	Specifies the UUID of the parent volume of the subvolume.
is_snapshot	Yes	String	Specifies whether the subvolume is a snapshot.
subvol_id	Yes	String	Specifies the subvolume ID.
parent_id	Yes	String	Specifies the ID of the parent volume of the subvolume.
subvol_name	Yes	String	Specifies the subvolume name.
subvol_mount_path	Yes	String	Specifies the mount path of the subvolume.

Table 5-63 disks data structure members

Parameter	Type	Description
id	long	Specifies the ID of the disk in the SMS database.
name	String	Specifies the disk name.
relation_name	String	Specifies the name of the source disk corresponding to the destination disk.
disk_id	String	Specifies the disk ID in EVS.
partition_style	String	Specifies the disk partition type. <ul style="list-style-type: none"> • MBR • GPT
size	long	Specifies the disk size.
os_disk	String	Specifies whether the disk is the system disk.
device_use	String	Specifies the partition user. <ul style="list-style-type: none"> • BOOT: indicates the boot partition. • OS: indicates the system partition. • NORMAL: indicates the common partition.
used_size	String	Specifies the size of the used disk space.
physical_volumes	JSON array	Specifies the physical volume information of the disk. For details, see Table 5-64 .

Table 5-64 Structure members of **physical_volumes**

Parameter	Type	Description
id	long	Specifies the ID of the physical partition in the database.
uuid	String	Specifies the partition UUID.
index	long	Specifies the serial number of the partition.
relation_name	String	Specifies the name of the source partition corresponding to the destination partition.
name	String	Specifies the partition name, for example, C in the Windows OS and /dev/vda1 in a Linux OS.
device_use	String	Specifies the partition user. <ul style="list-style-type: none"> • BOOT: indicates the boot partition. • OS: indicates the system partition. • NORMAL: indicates the common partition.

Parameter	Type	Description
file_system	String	Specifies the file system type of the partition. For example, the value can be NTFS .
size_per_cluster	String	Specifies the size of each cluster.
mount_point	String	Specifies the mount point of the partition.
size	long	Specifies the total partition size.
used_size	long	Specifies the used partition size.
free_size	long	Specifies the size of the available partition space.

Example

- Example request

None

- Example response

```
{
  "id": "65da430b-9538-4296-abd0-86a5aaf13c77",
  "name": "sms_task_smssource",
  "type": "MIGRATE_BLOCK",
  "os_type": "WINDOWS",
  "state": "READY",
  "connected": true,
  "estimate_complete_time": null,
  "create_date": 1528699579000,
  "start_date": null,
  "finish_date": null,
  "priority": 1,
  "speed_limit": 0,
  "migrate_speed": 0.0,
  "start_target_server": true,
  "error_json": "",
  "total_time": 0,
  "float_ip": "",
  "migration_ip": "X.X.X.X",
  "vm_template_id": "caa75db7-1748-42f4-b7e5-7b01fb5f89cf",
  "region_name": "UAE-Abu Dhabi",
  "region_id": "ae-ad-1",
  "project_name": "ae-ad-1",
  "project_id": "962def8b6e984888b80501c851d534b2",
  "sub_tasks": [
    {
      "id": 471,
      "name": "CREATE_CLOUD_SERVER",
      "progress": 100,
      "start_date": null,
      "end_date": null
    },
    {
      "id": 475,
      "name": "SSL_CONFIG",
      "progress": 100,
      "start_date": null,
      "end_date": null
    }
  ],
  "id": 477,
  "name": "ATTACH_AGENT_IMAGE",
  "progress": 0,
}
```

```

"start_date": null,
"end_date": null
}, {
  "id": 484,
  "name": "FORMAT_DISK_WINDOWS",
  "progress": 0,
  "start_date": null,
  "end_date": null
}, {
  "id": 491,
  "name": "MIGRATE_WINDOWS_BLOCK",
  "progress": 0,
  "start_date": null,
  "end_date": null
}, {
  "id": 498,
  "name": "CONFIGURE_WINDOWS",
  "progress": 0,
  "start_date": null,
  "end_date": null
}, {
  "id": 505,
  "name": "DETACH_AGENT_IMAGE",
  "progress": 0,
  "start_date": null,
  "end_date": null
}
},
"source_server": {
  "id": "a013ec5f-00d6-456b-8c1f-085599cb97e9",
  "ip": "192.168.1.57",
  "name": "smssource",
  "os_type": "WINDOWS",
  "os_version": "WINDOWS2008_R2_64BIT",
  "oem_system": false,
  "state": "AVAILABLE"
},
"target_server": {
  "id": "ec5eca22-db21-49b0-ae53-56a74f0318ec",
  "vm_id": "7c804c50-e9eb-40af-86ec-c78da64f22e2",
  "name": "smssrc",
  "ip": null,
  "os_type": "WINDOWS",
  "os_version": "WINDOWS2008_R2_64BIT",
  "system_dir": "Y:\\Windows\\System32",
  "disks": [{
    "id": 736,
    "name": "Disk 1",
    "disk_id": "e853bb2d-57e0-42b2-96c0-68794063fb0f",
    "partition_style": "MBR",
    "size": 53687091200,
    "used_size": 42964353024,
    "os_disk": true,
    "physical_volumes": [{
      "id": 1135,
      "uuid": "\\?\\Volume{f5a31ed9-cde8-11e6-9dd0-806e6f6e6963}\\",
      "index": 1,
      "name": "Z:",
      "device_use": "BOOT",
      "file_system": "NTFS",
      "size_per_cluster": 4096,
      "mount_point": null,
      "size": 113246208,
      "used_size": 25624064,
      "free_size": 87622144
    }
  ], {
    "id": 1142,
    "uuid": "\\?\\Volume{f5a31eda-cde8-11e6-9dd0-806e6f6e6963}\\",
    "index": 2,

```

```

    "name": "Y:",
    "device_use": "OS",
    "file_system": "NTFS",
    "size_per_cluster": 4096,
    "mount_point": null,
    "size": 42851106816,
    "used_size": 26961067520,
    "free_size": 15890039296
  }
]
},
"btrfs_list": [],
"volume_groups": []
}
}

```

Status Codes

See [Status Codes](#).

Error Codes

See [Out-of-Date Error Codes](#).

5.2.8 Deleting a Migration Task by Task ID

Function

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

You can delete a task only when the task status is **READY**, **ABORT**, **FAIL**, or **SUCCESS**.

URI

DELETE /v1/sms/tasks/{task_id}

For details about the parameters, see [Table 5-65](#).

Table 5-65 Parameter description

Parameter	Mandatory	Description
task_id	Yes	Specifies the task ID.

Request

N/A

Response

N/A

Example

- Example request
None
- Example response
None

Status Codes

See [Status Codes](#).

Error Codes

See [Out-of-Date Error Codes](#).

5.2.9 Deleting Migration Tasks in Batches

Function

This API is used to delete multiple migration tasks at a time.

You can delete a task only when the task status is **READY**, **ABORT**, **FAIL**, or **SUCCESS**.

URI

POST /v1/sms/tasks/delete

Request

Request parameters

For details about the request parameters, see [Table 5-66](#).

Table 5-66 Request parameters

Parameter	Mandatory	Type	Description
ids	Yes	JSON array	Specifies the collection of IDs of all tasks to be deleted.

Response

N/A

Example

- Example request

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

- Example response
None

Status Codes

See [Status Codes](#).

Error Codes

See [Out-of-Date Error Codes](#).

5.2.10 Setting the Migration Rate

Function

This API is used to set the migration rate of a migration task.

URI

POST /v1/sms/tasks/{task_id}/speed-limit

For details about the parameters, see [Table 5-67](#).

Table 5-67 Parameter description

Parameter	Mandatory	Type	Description
task_id	Yes	String	Specifies the ID of the task for which the speed limit needs to be set.

Request

Request parameters

For details about the request parameter, see [Table 5-68](#).

Table 5-68 Parameter description

Parameter	Mandatory	Type	Description
speed_limit	Yes	Integer	Specifies the information about the time segment when the migration rate is limited. For details, see Table 5-69 .

Table 5-69 speed_limit data structure

Parameter	Mandatory	Type	Description
start	Yes	String	Specifies the start time of a segment. The format is: XX:XX.
end	Yes	String	Specifies the end time of a segment. The format is: XX:XX.
speed	Yes	Integer	Specifies the migration rate in a time segment. The value is an integer ranging from 0 to 1000. Unit: Mbit/s.

Response

N/A

Example

- Example request

POST /v1/sms/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": "24:00",
      "speed": 25
    }
  ]
}
```

- Example response
None

Status Codes

See [Status Codes](#).

Error Codes

See [Out-of-Date Error Codes](#).

5.2.11 Querying the Migration Rate

Function

This API is used to search the migration rate of a migration task by a time segment.

URI

GET /v1/sms/tasks/{task_id}/speed-limit

For details about the parameters, see [Table 5-70](#).

Table 5-70 Parameter description

Parameter	Mandatory	Type	Description
task_id	Yes	String	Specifies the migration task ID. You can view the ID list using the API in Querying the List of Migration Tasks .

Request

N/A

Response

Table 5-71 Response

Parameter	Type	Description
speed_limit	JSON array	Specifies the information about the time segment when the migration rate is limited. For details, see Table 5-72 .

Table 5-72 speed_limit data structure

Parameter	Type	Description
start	String	Specifies the start time of a segment. The format is: XX:XX.
end	String	Specifies the end time of a segment. The format is: XX:XX.
speed	Integer	Specifies the migration rate in a time segment. The value is an integer ranging from 0 to 1000. Unit: Mbit/s.

Example

- **Example request**

```
GET /v1/sms/tasks/c3408583-23a8-490b-8d20-ee88baf6c96/speed-limit
```

- **Example response**

```
{
  "speed_limit": [
    {
      "start": "0:00",
      "end": "8:00",
      "speed": 20
    },
    {
      "start": "8:00",
      "end": "15:00",
      "speed": 50
    },
    {
      "start": "15:00",
      "end": "24:00",
      "speed": 25
    }
  ]
}
```

Status Codes

See [Status Codes](#).

Error Codes

See [Out-of-Date Error Codes](#).

5.2.12 Verifying the ACL of the Target ECS Network

Function

This API is used to verify the ACL information for the target ECS network.

URI

```
GET /v1/sms/tasks/{t_project_id}/networkacl/{t_subnet_id}/check?region_id=xx
```

Request

Request parameters

For details about the request parameters, see [Table 5-73](#).

Table 5-73 Parameter description

Parameter	Mandatory	Type	Description
t_project_id	Yes	String	Specifies the ID of the project to which the target ECS belongs.

Parameter	Mandatory	Type	Description
t_subnet_id	Yes	String	Specifies the subnet ID of the first NIC on the target ECS.
region_id	Yes	String	Specifies the region ID of the target ECS.

Response

N/A

Example

- Example request
None
- Example response
None

Status Codes

See [Status Codes](#).

Error Codes

See [Out-of-Date Error Codes](#).

5.3 Certificate Management

5.3.1 Downloading the SSL Socket Certificate and Private Key

Function

When the source server runs a Windows OS, the migration Agent installed on source servers communicates with destination servers through the SSL socket. This API is used to download the certificates and private keys in PEM format required by destination servers.

NOTE

This API is automatically called by the migration Agent to download SSL socket certificates and private keys. You do not need to make calls to this API.

URI

GET /v1/sms/tasks/{task_id}/certkey

For details about the parameters, see [Table 5-74](#).

Table 5-74 Parameter description

Parameter	Mandatory	Description
task_id	Yes	Specifies the task ID.

Request

None

Response

Response parameters

For details about the response parameters, see [Table 5-75](#).

Table 5-75 Response parameters

Parameter	Type	Description
cert	String	Specifies the self-signed certificate in the PEM format
private_key	String	Specifies the private key in the PEM format.

Example

- Example request

None

- Example response

```
{
  "cert": "-----BEGIN CERTIFICATE-----
MIICrjCCAhegAwIBAgIBADANBgkqhkiG9w0BAQUFADCBNDELMAkGA1UEBhMCQ04x
EjAQBgNVBAGMCUd1YW5nRG9uZzERMA8GA1UEBwwwU2hlbnpoZW4xDALBgNVBAoM
BE1hYVVMxFDASBgNVBAsMC0Ns3VkymlsaXR5MSIwIAYDVQQDDBlBdGxhcyBQZXJz
b25hbCBMaWNlbnNlIENBMR0wGwYJKoZIhvcNAQkBFg5jd2pic3VAMTI2LmNvbTAe
Fw0xODAzMTYwMTQzMDFaFw0xOTAzMTYwMTQzMDFaMIGcmQswCQYDVQQGEWJDTJES
MBAGA1UECAwJR3VhbmdEb25nMREwDwYDVQQHDAhTaGVuemh1b2JENMAsGA1UECgwE
TWFhUzEUMBIGA1UECwwLQ2xvdWRiaWxpdkHkxIjAgBgNVBAMMGUF0bGFzIFB1cnNv
bmFsiExpY2Vuc2UgQ0ExHTAbBgkqhkiG9w0BCQEWDMn3amNzdUAxMjYy29tMIGf
MA0GCSqGSIb3DQEBAQUAA4GNADCBiQKBgQDGA3ahP8o4h9B6BLIfOVCpbeHbB4+
H8dNB+NtAopv9NKg2fz9KPTxJKw037L/dCNE/DCFFlu9dczxXmJRFIRrz677LcBj
T+05VEjil86qeucnWGVZJjTqG11f5eTUGzUIV12cT425Q/y/BdWAniW70XfjOeeS
hOW6CZefJ9Q0FwIDAQABMA0GCSqGSIb3DQEBAQUAA4GBAH16ASRuNjbJ5e1BPAig
9vmQ3iPgUYJFCMPoJeZWecrj+pGhVJDsviLimNmEnCkEJpRf0sFvPG64R/BISsb
v/PXvfDLwfTcx1q2j9Y4i3sPe2JfwPKcQLKpDZlyakk9tYsRztFPoxlK0F7YQKd+
rvbHNGLkWxDArm44wURYFA1t
-----END CERTIFICATE-----",
  "private_key": "-----BEGIN RSA PRIVATE KEY-----
MIICXAIBAAKBgQDGA3ahP8o4h9B6BLIfOVCpbeHbB4+H8dNB+NtAopv9NKg2fz9
KPTxJKw037L/dCNE/DCFFlu9dczxXmJRFIRrz677LcBjT+05VEjil86qeucnWGVZ
JjTqG11f5eTUGzUIV12cT425Q/y/BdWAniW70XfjOeeShOW6CZefJ9Q0FwIDAQAB
AoGAG753fC9iZ5pL8RTBxmC7A4pxlRvmhWDRfW8KBAeTmw0sB+KTKmt3KmRvhncD
bv4R2pNLSFR2Ayh7l2qNrylWcuxTrlDowGrUg+QzwMfjixcAEU7IHCRc2k3t
7yf0EILYoM+A+SgvDO8YWhaJ6Sye0zAHFZbabNsSbWzbb8kCQQDlgnh5CN/nDhB
URZ1FoUrQ8pzK3rc6krWe4WWPxp9YJ33zgCOut1w2y2eJ0SN1m+yxAAZ22fnY47kj
HrS8TjvZAKEA3N7DnLggtQcOC6Ye2v5SGLzv0O6Gw5Xl3NLWiiGK8ky/3Q1Aa5gh
```

```

/8qBnqKLfxpe+3IKfN+wrXUG5PV+XdapbwJAbKbdAtWlqLc/WybOTow2az8SrxY
x9EbUOL1YSXM/vzjQc3eFq6ztzUgdTxPXzRMH5d1d/rFr4pPcXlt+V/IMQBAJQB
AnumNuSX0aWkr9B303OYR+ttqwitDdcnwXPWfIFTGcB6/MwcqcvKW4l9ypRli3hb
NwPusWnKndAXYZJolikCQGe7Nb+e59Ksm5+BoSxp/07FriqvwPrDkr+e1Xpfmoai
s4U4T0RA/NkYRTX/jN/HtpXkjR/dEf7RAAmNO3WtKm4=
-----END RSA PRIVATE KEY-----"
}

```

Status Codes

See [Status Codes](#).

Error Codes

See [Out-of-Date Error Codes](#).

5.3.2 Downloading the RSA Public and Private Keys

Function

If a source server runs a Linux OS, the migration Agent installed on the source server communicates with the target ECS through SSH. This API is used to return a group of RSA public and private keys, which are used as the SSH private key of the target ECSs.

NOTE

This API is automatically called by the migration Agent to download RSA public and private keys. You do not need to make calls to this API.

URI

GET /v1/sms/tasks/{task_id}/rsakeypair

For details about the parameters, see [Table 5-76](#).

Table 5-76 Parameter description

Parameter	Mandatory	Description
task_id	Yes	Specifies the task ID.

Request

None

Response

Response parameters

For details about the response parameters, see [Table 5-77](#).

Table 5-77 Response parameters

Parameter	Type	Description
private_key	String	Specifies the private key in the PEM format.
public_key	String	Specifies the public key in the PEM format.

Example

- Example request

None

- Example response

```
{
  "private_key ":"-----BEGIN RSA PRIVATE KEY-----\nMIEoAIBAAKCAQEAo9rcDbwylbq73zmv3lL9cxgBqe
+POII0guVo7ZKqxoLm2sz\nAf7y/taAtDQdlwGOeuhTXS1o3Ea3sc96WJhCjBcZwZck/
6yO2zq041qL6YQ3VZY\nU1XHJnYp50Fd7mQA2ud5M48DE6ggs5sJ5DDr8g0GzscniPHB1mg1tP
+f1tcTEhFq\nmZiU208VGGetoHFIdgvbcw9V3Ci/INMcoMWe1AsKDNerVTNdT
+qgzqUEgOUa21/\n8s25Tdv38pHwKobh9GNAICThsoQuOzmuMPv4nxyoNy43CEuGmj
+3qdXe6+nJYug6\ndEjP9RCJ5LVt5QEflG81+xDfuTXGjIE/aHqhTQIDAQABAoH/JcNK899ryrZANjIV
\nVbzarKvbtK5/s4ZF0eUNsBODqFoo0qjGJOpbRlCl
+VK0caKD8l7bP4KLLofm9s1\nWLAzrMcSBqxwqasJaKixdhAhaNndCSXdNVePjk2tWp62BzsE925hgIB1NR
KKdtpE\nbVLZDe/yobVET1NoWQGrXwuKyvhn9+z/hDkZJDVoQRolUa2SiNiYWh7QiU+GeZ5DD
\nPjpiAJfmBe4Zs611AhJMiBQohGDy+L8thGRx3bl69flIn3Sa1ZTC49sW+82qGHsP
\nqhXiB6OCsmVy44DmOUUG/qCLY/aSer/a4cNLaZTzxx3lhCel30ats/0aLEw5Szyb
\nslgBAoGBAN05QA14SgAR+XjGsMOq8/rHU/x3cquJO1COeFF8xCgAOulmRmQbpyC
\ni34fJlpNTbi5czTy8JuPsKAcSGnbnFVZtEEB1XpZCDZ5ChSgaiCZECdl79RjZ4GZ
\nJMa3uXnwioPh9eHx8RSl+qGAT/15LdkPzDDHrt6QTgTt9rrCxWdNAoGBAMYeU5yJ\nzsq7UufGnZ76q
+hvH+lfYrrFz/wE2ZdN2ISGIWV9rr7KEjDNP24rrAzgwNosyepI\nhobQ/nM8k0/
GSQTWn2U1qpwdM7tzdfFpsi5NjFP4sufqhXtXt5xcGTnX275Cu2i\nX6TaeB8aVdomrAD6nEq2/
w15nEWPhppqcSIBA0GAwG3QZFwGbgAoUQTfVpJAEB\n17YVUxhc5/lqKviYn3Ke0Zv+0YvILY/
pivxu0KveqfpfER9fzZrBUmiVOELZlYg\nQClqjb5+qsSyz/
Vn7HOOFmPaLWkWZl4f8VHF1yLDl7KtZawFkXXDc5vi6fn30UJR
\n5FGahFm2hYw9jFQ5qGUCgYAKAAXgZORXP1VT9aaHG8gl3JY6UOmgc2ZwTsujuv\nnm0t3L/
zeDH0WkYWeHf41ODMD0Dbw6eb8HGzpj8w66VL5TludmMCNkciMxWwSP+J
\nbsiihG8jXacXrL7j2Zl8ZTtmSaAEC4buBtQFpg2xrTv57Zz3wDlWVat/CyjKeY
\nAQKBgHZGsTBBRMBUEmlSmuctTh41otWjKx34jMtfRzY+zs959Qy4JMLICOU1rQ8O
\nrebbmoRoApEB9xkWDRZe56/Y3cKclmTjjuGAiP/+49srJjz+Wu3lYvukyDs9vICE\nn58M/
hMpCLNcJEmpB8mr5Eb7+aC2UYZdqIY2Wa56MUicTX/c\n-----END RSA PRIVATE KEY-----\n",
  "public_key ":"ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQACj2twNvDKVurvfOa/
cgv1zGAGp7484gg6C5WjtkqrHA4ubazMB/vL+1oC11B0jAY566FNdlWjcrRexz3pfAmEllsJnBlyT/
ri7bOrTjWovphDdVlHtVccmDinnQV3uZADa53kzjwMTqCCzwmnkMOvyDQbOxycg8cHWaDW0/5/
W1xMSEWqZmJTbTxUYZ62gcUh2C9tzD1XcKL8g0xygxZ7UCwoM15FVM11P6qDOoVQSA5RrbX/yzblN2/
fykfAqhuH0Y0AgJOGyhC47Oa4w+/ifHKg3LjclS4aaP7ep1d7r6cli6Dp0SM/1ElnktW3lAR+UbxZ7EN
+5NcaMgT9oeqFN \n"
}
```

Status Codes

See [Status Codes](#).

Error Codes

See [Out-of-Date Error Codes](#).

5.3.3 Downloading the ECDSA Public and Private Keys

Function

If a source server runs a Linux OS, the migration Agent installed on the source server communicates with the target ECS through SSH. This API is used to return a

group of Elliptic Curve Digital Signature Algorithm (ECDSA) public and private keys, which are used as the SSH private key of the destination servers.

 **NOTE**

This API is automatically called by the migration Agent to download ECDSA public and private keys. You do not need to make calls to this API.

URI

- URI Format
GET /v1/sms/tasks/{task_id}/ecdsakeypair
- Parameter description

Parameter	Type	Mandatory	Description
task_id	String	Yes	Specifies the task ID.

Constraints

N/A

Extension Description

N/A

Request Parameters

None

Response Parameters

Parameter	Type	Description
private_key	String	Specifies the ECDSA private key in PEM format.
public_key	String	Specifies the ECDSA public key in PEM format.

Request Example

None

Response Example

```
{
  "private_key ":"-----BEGIN EC PRIVATE KEY-----
  MHcCAQEEIM65a2NCcZg6el7wELMEZQTTpOGm6AeO0FVNQKcrlq6GoAoGCCqGSM49
  AwEHoUQDQgAEJL+BljWgKJodqjJmeqYwiQ7YRIdnBtfckSIUykoGRUJc4VuFMJzv
  jPCoirT49vDFCDheKbicZSZNpXb2riGU2g==
  -----END EC PRIVATE KEY-----",
  "public_key ":"-----BEGIN PUBLIC KEY-----
```



```
MFkwEwYHKoZIzj0CAQYIKoZIzj0DAQcDQgAEJL+BljWgKJodqjJmeqYwiQ7YRIdn  
BtfckSIUykoGRUJc4VuFMJzvjPCoirT49vDFCDheKbicZSZNpXb2riGU2g==  
-----END PUBLIC KEY-----"  
}
```

Status Codes

See [Status Codes](#).

Error Codes

See [Out-of-Date Error Codes](#).

5.4 Command Management

5.4.1 Obtaining Commands from SMS

Function

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

NOTE

This API is automatically called by the migration Agent to obtain migration command sent by the SMS server. You do not need to make calls to this API.

URI

GET /v1/sms/sources/{source_id}/command

For details about the parameters, see [Table 5-78](#).

Table 5-78 Parameter description

Parameter	Mandatory	Description
source_id	Yes	Specifies the source server ID.

Request

None

Response

Response parameters

For details about the response parameters, see [Table 5-79](#).

Table 5-79 Response parameters

Parameter	Type	Description
command_name	String	Specifies the command name. The options can be START , STOP , DELETE , and SYNC .
command_param	Json	Specifies the command parameters. For details, see Table 5-80 .

Table 5-80 command_param information

Parameter	Type	Description
key1	String	Specifies the parameters to be used.
key2	String	Specifies the parameters to be used.

Example

- Example request
None
- Example response

- Starting a migration task

```
{
  "command_name": "START",
  "command_param": {
    "task_id": "2c0689c860ad4728a497c91ec0844384"
  }
}
```

- Stopping a migration task

```
{
  "command_name": "STOP",
  "command_param": {
    "task_id": "2c0689c860ad4728a497c91ec0844384"
  }
}
```

- Synchronizing data after a migration task is complete

```
{
  "command_name": "SYNC",
  "command_param": {
    "task_id": "2c0689c860ad4728a497c91ec0844384"
  }
}
```

- Deleting a migration task

```
{
  "command_name": "DELETE",
  "command_param": {
    "task_id": "2c0689c860ad4728a497c91ec0844384"
  }
}
```

- Collecting migration logs to a specified OBS bucket

```
{
  "command_name": "UPLOAD_LOG",
  "command_param": {
    "bucket": "logbucket"
  }
}
```

```
"object": ""  
}  
}
```

Status Code

See [Status Codes](#).

Error Code

See [Out-of-Date Error Codes](#).

5.4.2 Reporting the Migration Command Execution Result to the SMS Server

Function

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

NOTE

This API is automatically called by the migration Agent to report migration command execution result to the SMS server. You do not need to make calls to this API.

URI

POST /v1/sms/sources/{source_id}/command_result

For details about the parameters, see [Table 5-81](#).

Table 5-81 Parameter description

Parameter	Mandatory	Description
source_id	Yes	Specifies the source server ID.

Request

Request parameters

For details about the request parameters, see [Table 5-82](#).

Table 5-82 Request parameters

Parameter	Mandatory	Type	Description
command_name	Yes	String	Specifies the command name. The options can be START , STOP , DELETE , SYNC , UPLOAD_LOG , and RSET_LOG_ACL .
result	Yes	String	Specifies the command output. <ul style="list-style-type: none"> • success: indicates that the migration command is executed successfully. • fail: The migration command fails to be executed.
result_detail	Yes	Json	Specifies the migration command execution result in JSON format.

Response

None

Example

- Example request

```
{
  "command_name": "START",
  "result": "success",
  "result_detail": {
    "key1": "value1",
    "key2": "value2"
  }
}
```
- Example response

None

Status Codes

See [Status Codes](#).

Error Codes

See [Out-of-Date Error Codes](#).

5.5 Template Management

5.5.1 Querying the Template List

Function

This API is used to query the templates for creating target servers.

URI

GET /v1/sms/vm/templates

Request

Request parameters

For details about the request parameters, see [Table 5-83](#).

Table 5-83 Parameter description

Parameter	Mandatory	Type	Description
name	No	String	Template name
availability_zone	No	String	AZ
region	No	String	Region ID
Number_per_page	No	Integer	Page size. The default value is 50 .
Page_num	No	Integer	Start page number. The default value is 0 .

Response

Response parameters

For details about the response parameters, see [Table 5-85](#).

Table 5-84 Response parameters

Parameter	Type	Description
count	String	Template quantity
templates	String	Template information. For details, see Table 5-84 .

Table 5-85 templates information

Parameter	Type	Description
name	String	Template name
id	String	Template ID
region	String	Region ID
availability_zone	String	AZ
volumetype	String	Disk type
vpc	Object	VPC information. For details, see Table 5-86 .
nics	Array	Subnet information. For details, see Table 5-88 .
security_groups	Array	Security group. For details, see Table 5-87 .
publicip	Object	EIP information. For details, see Table 5-89 .

Table 5-86 vpc information

Parameter	Type	Description
id	String	VPC ID
name	String	VPC name

Table 5-87 security_groups information

Parameter	Type	Description
id	String	Security group ID
name	String	Security group name

Table 5-88 nics information

Parameter	Type	Description
id	String	Subnet ID
name	String	Subnet name
cidr	String	Subnet gateway/mask

Table 5-89 publicip information

Parameter	Type	Description
type	String	EIP type. The default value is 5_bgp .
bandwidth_size	Integer	<p>Bandwidth size (Mbit/s). The value range is 1 to 2000. 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 (with 300 Mbit/s included). The minimum increment is 50 Mbit/s if the allowed bandwidth ranges 300 Mbit/s to 1000 Mbit/s (with 1000 Mbit/s included). The minimum increment is 500 Mbit/s if the allowed bandwidth is greater than 1000 Mbit/s.</p> <p>NOTE This parameter is mandatory when sharetype is set to PER and is optional when sharetype is set to WHOLE with an ID specified.</p>

Example

- Example request
GET v1/sms/vm/templates?name=temp1

- Example response

```
{
  "count":1,
  "templates":[
    {
      "name":"temp1",
      "id":"abcdefghijkl-aa-bbb",

      "region":"ae-ad-1",
      "availability_zone":"AZ1",

      "volumetype":"SATA",
      "vpc":{
        "id":"0dae26c9-9a70-4392-93f3-87d53115d171",
        "name":"vpc1"
      },
      "nics":[
        {
          "id":"157ee789-03ea-45b1-a698-76c92660dd83",
          "name": "subnet-1637",
          "cidr": "192.168.0.0/24"
        }
      ]
    }
  ]
}
```

```
    }  
  ],  
  "security_groups":[  
    {  
      "id":"507ca48f-814c-4293-8706-300564d54620",  
      "name":"default"  
    }  
  ],  
  "publicip": {  
    "type": "5_bgp",  
    "bandwidth_size":10,  
  }  
}  
]  
}
```

Status Codes

See [Status Codes](#).

Error Codes

See [Out-of-Date Error Codes](#).

5.5.2 Querying Information About a Template with a Specified ID

Function

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

URI

GET /v1/sms/vm/template/{id}

For details about the parameters, see [Table 5-90](#).

Table 5-90 Parameter description

Parameter	Mandatory	Type	Description
id	Yes	String	Template ID. Use the API provided in Querying the Template List to query the template ID list.

Request

None

Response

Response parameters

For details about the response parameters, see [Table 5-92](#).

Table 5-91 Response parameters

Parameter	Type	Description
template	String	Template information. For details, see Table 5-92 .
disks	String	Disk information. For details, see Table 5-98 .

Table 5-92 template information

Parameter	Type	Description
name	String	Template name
id	String	Template ID
is_template	Boolean	Whether the object is a template. The value is true if a user saves the template, and false if the user does not save the template and directly create a task.
region	String	Region name
target_server_name	String	Name of the target ECS
availability_zone	String	AZ
volumetype	String	Disk type
vpc	Object	VPC information. The value is {} if the VPC is automatically created. For details, see Table 5-93 .
security_groups	Array	Security group. The value is [] if the security group is automatically created. For details, see Table 5-94 .
nics	Array	Subnet information. The value is [] if the subnet is automatically created. For details, see Table 5-95 .
flavors	Array	ECS specifications. The value is [] if the ECS is automatically created. For details, see Table 5-96 .
publicip	Object	EIP information. For details, see Table 5-97 .

Table 5-93 vpc information

Parameter	Type	Description
id	String	VPC ID
name	String	VPC name

Table 5-94 security_groups information

Parameter	Type	Description
id	String	Security group ID
name	String	Security group name

Table 5-95 nics information

Parameter	Type	Description
id	String	Subnet ID
name	String	Subnet name
cidr	String	Gateway/mask
ip	String	Private IP address

Table 5-96 flavors information

Parameter	Type	Description
id	String	ECS specification ID
name	String	ECS flavor

Table 5-97 publicip information

Parameter	Type	Description
id	String	EIP ID, which is mandatory for a newly assigned one.
ip	String	EIP address, which is mandatory for a newly assigned one.
type	String	EIP type. The default value is 5_bgp .

Parameter	Type	Description
bandwidth_size	Integer	<p>Bandwidth size (Mbit/s). The value ranges from 1 to 2000.</p> <p>The minimum increment for bandwidth adjustment varies depending on the bandwidth range. The minimum increment is 1 Mbit/s if the allowed bandwidth ranges from 0 to 300 Mbit/s (with 300 Mbit/s included). The minimum increment is 50 Mbit/s if the allowed bandwidth ranges 300 Mbit/s to 1000 Mbit/s (with 1000 Mbit/s included). The minimum increment is 500 Mbit/s if the allowed bandwidth is greater than 1000 Mbit/s.</p> <p>NOTE This parameter is mandatory when sharetype is set to PER and is optional when sharetype is set to WHOLE with an ID specified.</p>
bandwidth_share_type	String	<p>Bandwidth sharing type. Enumerated values: PER (indicates exclusive bandwidth) and WHOLE (indicates sharing). The default value is PER.</p>

Table 5-98 disk information

Parameter	Type	Description
index	Integer	Disk number, starting from 0
name	String	Disk name
disktype	String	Disk type. The value is the same as that of volumetype .
size	Integer	Disk size (GB)

Example

- Example request
GET v1/sms/vm/template/90c950d7-d184-4b5e-87c0-f0bd09dfa0c1
- Example response


```
{
  "template": {
    "id": "aaaa-bbbb",
    "name": "template name",
    "is_template": "false", // false indicates creating a task, and true indicates saving the template.

    "region": "ae-ad-1",
```

```
"target_server_name":"target server 1",
"availability_zone":"az1-dc1", //AZ name
"volumetype": "DESS_SSD_FC",
"vpc": {
  "id":"0dae26c9-9a70-4392-93f3-87d53115d171",
  "name":"vpc1"
},
"security_groups":[
  {
    "id":"507ca48f-814c-4293-8706-300564d54620",
    "name":"default"
  }
],
"nics":[
  {
    "id":"157ee789-03ea-45b1-a698-76c92660dd83",
    "name": "subnet-1637",
    "cidr": "192.168.0.0/24",
    "ip":"192.168.0.0"
  }
],
"flavors":[
  {
    "id": "c3.2xlarge.4",
    "name": "c3.2xlarge.4",
  }
],
"publicip": {
  "id":"1111",
  "ip ":"x.x.x.x",
  "type": "5_bgp",
  "bandwidth_size":10,
  "bandwidth_share_type":"PER"
}
},
"disks":[
  {
    "index":0,
    "name":"Disk 01",
    "disktype":"DESS_SSD_FC",
    "size":40
  }
]
}
```

Status Codes

See [Status Codes](#).

Error Codes

See [Out-of-Date Error Codes](#).

5.5.3 Adding Template Information

Function

This API is used to add information to a template.

URI

POST /v1/sms/vm/template

Request

Request parameters

For details about the request parameters, see [Table 5-99](#).

Table 5-99 Parameter description

Parameter	Mandatory	Type	Description
template	Yes	String	Template information. For details, see Table 5-100 .
disks	Yes	String	Disk information. For details, see Table 5-105 .

Table 5-100 template information

Parameter	Mandatory	Type	Description
name	Yes	String	Template name
is_template	Yes	Boolean	Whether the object is a template. The value is true if a user saves the template, and false if the user does not save the template and directly create a task.
region	Yes	String	Region name
target_server_name	Yes	String	Name of the target ECS
availability_zone	Yes	String	AZ
volumetype	Yes	String	Disk type
vpc	Yes	Object	VPC information. The value is {} if the VPC is automatically created. For details, see Table 5-101 .
security_groups	Yes	Array	Security group. The value is [] if the security group is automatically created. For details, see Table 5-102 .
nics	Yes	Array	Subnet information. The value is [] if the subnet is automatically created. For details, see Table 5-103 .
flavors	No	Array	ECS specifications. The value is [] if the ECS is automatically created.

Parameter	Mandatory	Type	Description
publicip	No	Object	EIP information. For details, see Table 5-104 .

Table 5-101 vpc information

Parameter	Mandatory	Type	Description
id	Yes	String	VPC ID
name	Yes	String	VPC name

Table 5-102 security_groups information

Parameter	Mandatory	Type	Description
id	Yes	String	Security group ID
name	Yes	String	Security group name

Table 5-103 nics information

Parameter	Mandatory	Type	Description
id	Yes	String	Subnet ID
name	Yes	String	Subnet name
cidr	Yes	String	Gateway/mask
ip	No	String	Private IP address

Table 5-104 publicip information

Parameter	Mandatory	Type	Description
id	No	String	EIP ID, which is mandatory for a newly assigned one.
ip	No	String	EIP address, which is mandatory for a newly assigned one.

Parameter	Mandatory	Type	Description
type	Yes	String	EIP type. The default value is 5_bgp .
bandwidth_size	Yes	Integer	Bandwidth size (Mbit/s). The value ranges from 1 to 2000 . The minimum increment for bandwidth adjustment varies depending on the bandwidth range. The minimum increment is 1 Mbit/s if the allowed bandwidth ranges from 0 to 300 Mbit/s (with 300 Mbit/s included). The minimum increment is 50 Mbit/s if the allowed bandwidth ranges 300 Mbit/s to 1000 Mbit/s (with 1000 Mbit/s included). The minimum increment is 500 Mbit/s if the allowed bandwidth is greater than 1000 Mbit/s. NOTE This parameter is mandatory when sharetype is set to PER and is optional when sharetype is set to WHOLE with an ID specified.
bandwidth_share_type	No	String	Bandwidth sharing type. Enumerated values: PER (indicates exclusive bandwidth) and WHOLE (indicates sharing). The default value is PER .

Table 5-105 disk information

Parameter	Mandatory	Type	Description
index	Yes	Integer	Disk number, starting from 0
name	No	String	Disk name
disktype	Yes	String	Disk type. The value is the same as that of volumetype .
size	Yes	Integer	Disk size (GB)

Response

Table 5-106 Response message

Parameter	Type	Description
id	String	ID

Example

- Example request

POST /v1/sms/vm/template

```
{
  "template": {
    "name": "template name",
    "is_template": "false", // false indicates creating a task, and true indicates saving the template.

    "region": "ae-ad-1",

    "target_server_name": "target server 1",
    "availability_zone": "az1-dc1", //AZ name
    "volumetype": "DESS_SSD_FC",
    "vpc": {
      "id": "0dae26c9-9a70-4392-93f3-87d53115d171",
      "name": "vpc1"
    },
    "security_groups": [
      {
        "id": "507ca48f-814c-4293-8706-300564d54620",
        "name": "default"
      }
    ],
    "nics": [
      {
        "id": "157ee789-03ea-45b1-a698-76c92660dd83",
        "name": "subnet-1637",
        "cidr": "192.168.0.0/24",
        "ip": "192.168.0.0"
      }
    ],
    "flavors": "c3.2xlarge.4",
    "publicip": {
      "id": "1111",
      "ip": "x.x.x.x",
      "type": "5_bgp",
      "bandwidth_size": 10,
      "bandwidth_share_type": "PER"
    },
    "disks": [
      {
        "index": 0,
        "name": "Disk 01",
        "disktype": "DESS_SSD_FC",
        "size": 40
      }
    ]
  }
}
```

- Example response

```
{
  "id": "aaaa-bbbb-cccc-dddd"
}
```

Status Codes

See [Status Codes](#).

Error Codes

See [Out-of-Date Error Codes](#).

5.5.4 Modifying Template Information

Function

This API is used to modify the template information.

URI

PUT /v1/sms/vm/template/{id}

Request

Request parameters

For details about the request parameter, see [Table 5-107](#).

Table 5-107 Parameter description

Parameter	Mandatory	Type	Description
template	Yes	String	Template information. For details, see Table 5-108 .

Table 5-108 template information

Parameter	Mandatory	Type	Description
name	Yes	String	Template name
region	Yes	String	Region name
target_server_name	Yes	String	Name of the target ECS
availability_zone	Yes	String	AZ
volumetype	Yes	String	Disk type
vpc	Yes	Object	VPC information. The value is {} if the VPC is automatically created. For details, see Table 5-109 .
security_groups	Yes	Array	Security group. The value is [] if the security group is automatically created. For details, see Table 5-110 .
nics	Yes	Array	Subnet information. The value is [] if the subnet is automatically created. For details, see Table 5-111 .

Parameter	Mandatory	Type	Description
flavors	No	Array	ECS specifications. The value is [] if the ECS is automatically created. For details, see Table 5-112 .
publicip	No	Object	EIP information. For details, see Table 5-113 .

Table 5-109 vpc information

Parameter	Mandatory	Type	Description
id	Yes	String	VPC ID
name	Yes	String	VPC name

Table 5-110 security_groups information

Parameter	Mandatory	Type	Description
id	Yes	String	Security group ID
name	Yes	String	Security group name

Table 5-111 nics information

Parameter	Mandatory	Type	Description
id	Yes	String	Subnet ID
name	Yes	String	Subnet name
cidr	Yes	String	Gateway/mask
ip	No	String	Private IP address

Table 5-112 flavors information

Parameter	Mandatory	Type	Description
id	Yes	String	ECS specification ID

Parameter	Mandatory	Type	Description
name	Yes	String	ECS flavor

Table 5-113 publicip information

Parameter	Mandatory	Type	Description
id	No	String	EIP ID, which is mandatory for a newly assigned one.
ip	No	String	EIP address, which is mandatory for a newly assigned one.
type	Yes	String	EIP type. The default value is 5_bgp .
bandwidth_size	Yes	Integer	Bandwidth size (Mbit/s). The value ranges from 1 to 2000 . The minimum increment for bandwidth adjustment varies depending on the bandwidth range. The minimum increment is 1 Mbit/s if the allowed bandwidth ranges from 0 to 300 Mbit/s (with 300 Mbit/s included). The minimum increment is 50 Mbit/s if the allowed bandwidth ranges 300 Mbit/s to 1000 Mbit/s (with 1000 Mbit/s included). The minimum increment is 500 Mbit/s if the allowed bandwidth is greater than 1000 Mbit/s. NOTE This parameter is mandatory when sharetype is set to PER and is optional when sharetype is set to WHOLE with an ID specified.
bandwidth_share_type	No	String	Bandwidth sharing type. Enumerated values: PER (indicates exclusive bandwidth) and WHOLE (indicates sharing). The default value is PER .

Response

Table 5-114 Response message

Parameter	Type	Description
id	String	ID

Example

- Example request

```
PUT /v1/sms/vm/template
{
  "template": {
    "name": "template name",
    "is_template": "false", // false indicates creating a task, and true indicates saving the template.

    "region": "ae-ad-1",

    "target_server_name": "target server 1",
    "availability_zone": "az1-dc1", //AZ name
    "volumetype": "DESS_SSD_FC",
    "vpc": {
      "id": "0dae26c9-9a70-4392-93f3-87d53115d171",
      "name": "vpc1"
    },
    "security_groups": [
      {
        "id": "507ca48f-814c-4293-8706-300564d54620",
        "name": "default"
      }
    ],
    "nics": [
      {
        "id": "157ee789-03ea-45b1-a698-76c92660dd83",
        "name": "subnet-1637",
        "cidr": "192.168.0.0/24",
        "ip": "192.168.0.0"
      }
    ],
    "flavors": [
      {
        "id": "c3.2xlarge.4",
        "name": "c3.2xlarge.4",
      }
    ],
    "publicip": {
      "id": "1111",
      "ip": "x.x.x.x",
      "type": "5_bgp",
      "bandwidth_size": 10,
      "bandwidth_share_type": "PER"
    }
  }
}
```

- Example response
None

Status Codes

See [Status Codes](#).

Error Codes

See [Out-of-Date Error Codes](#).

5.5.5 Deleting a Template with a Specified ID

Function

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

URI

DELETE /v1/sms/vm/template/{id}

Request

Request parameters

For details about the request parameter, see [Table 5-115](#).

Table 5-115 Parameter description

Parameter	Mandatory	Type	Description
id	Yes	String	Template ID. Use the API provided in Querying the Template List to query the template ID list.

Response

None

Example

- Example request
DELETE v1/sms/vm/template/aaaaa-bbbb-cccc
- Example response
None

Status Codes

See [Status Codes](#).

Error Codes

See [Out-of-Date Error Codes](#).

5.5.6 Deleting Templates with Specified IDs in Batches

Function

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

URI

POST /v1/sms/vm/templates/delete

Request

Request parameters

For details about the request parameter, see [Table 5-116](#).

Table 5-116 Parameter description

Parameter	Mandatory	Type	Description
ids	Yes	Array	Template ID. Use the API provided in Querying the Template List to query the template ID list.

Response

None

Example

- Example request
POST v1/sms/vm/templates/delete
{
 "ids": ["aaaaa-ccc", "eeee-xxxx"]
}
- Example response
None

Status Codes

See [Status Codes](#).

Error Codes

See [Out-of-Date Error Codes](#).

6 Appendix

6.1 Error Codes

Status Code	Error Code	Error Message	Description	Handling Measure
400	SMS.0007	Agent error.	Agent error.	Contact technical support.
400	SMS.0201	Network busy. The source server failed to connect to API Gateway.	Network busy. Source server failed to connect to API Gateway.	Check network between source server and API gateway.
400	SMS.0202	AK/SK authentication failed. Ensure that the AK and SK are correct.	AK/SK authentication failed. Ensure that the AK and SK are correct.	Check whether you enter the correct AK and SK of the target platform account and whether the account is frozen.
400	SMS.0203	The connection from the source server to API Gateway timed out.	Connection from source server to API Gateway timed out.	Check network between source server and API gateway.

Status Code	Error Code	Error Message	Description	Handling Measure
400	SMS.0204	Insufficient permissions. Cause: {0[0]}. Add corresponding fine-grained permissions.	Insufficient permissions. Cause: {0[0]}. Obtain the required fine-grained permissions.	Obtain the required fine-grained permissions.
400	SMS.0205	The time or time zone of the source server is incorrect.	Incorrect system time or time zone on source server.	Change system time or time zone on source server.
400	SMS.0206	Only x86 servers can be migrated.	Only x86 servers can be migrated.	Use another migration method.
400	SMS.0207	KVM driver not available on the source server.	KVM driver not available on source server.	Install the KVM driver.
400	SMS.0301	Incorrect Agent information. Check Agent configuration and try again.	Incorrect proxy information. Check proxy configuration and try again.	Modify the proxy information.
400	SMS.0401	Failed to obtain the project ID. Cause: %s	No project ID found. Cause: %s	Contact technical support.
400	SMS.0406	Failed to obtain the image information. Cause: %s	No image found. Cause: %s	Contact technical support.
400	SMS.0407	Failed to obtain the target server information. Cause: %s	No target server information found. Cause: %s	Contact technical support.
400	SMS.0408	Failed to obtain details about target server %s. Cause: %s	Failed to obtain details about target server %s. Cause: %s	Contact technical support.

Status Code	Error Code	Error Message	Description	Handling Measure
400	SMS.0409	Failed to obtain volume information of target server %s. Cause %s	Failed to obtain volume information of target server %s. Cause %s	Contact technical support.
400	SMS.0410	Failed to obtain NIC information of target server %s. Cause: %s	Failed to obtain NIC information of target server %s. Cause: %s	Contact technical support.
400	SMS.0411	Disk %s does not exist.	Disk %s does not exist.	The disk has been deleted. Migrate the source server again.
400	SMS.0412	Target server %s does not exist.	Target server %s does not exist.	The target server has been deleted. Migrate the source server again.
400	SMS.0413	Failed to query the region where the bucket locates. Cause: %s	Failed to query the region where the bucket locates. Cause: %s	Contact technical support.
400	SMS.0414	Failed to copy logs from the customer's OBS bucket to the destination bucket. Insufficient permissions. Cause: %s	Failed to copy logs from the customer's OBS bucket to the destination bucket. Cause: %s	Contact technical support.
400	SMS.0415	Failed to obtain the target server specifications. Cause: %s	Failed to obtain the target server specifications. Cause: %s	Contact technical support.

Status Code	Error Code	Error Message	Description	Handling Measure
400	SMS.0416	Failed to obtain the VPC details. Cause: %s	No VPC discovered. Cause: %s	Contact technical support.
400	SMS.0417	Failed to obtain the security group details. Cause: %s	No security group discovered. Cause: %s	Contact technical support.
400	SMS.0418	Failed to obtain the subnet details. Cause: %s	No subnet discovered. Cause: %s	Contact technical support.
400	SMS.0419	Failed to obtain the volume details of target server %s by calling the combined API. Cause: %s	Failed to obtain the volume details of target server %s by calling the combined API. Cause: %s	Contact technical support.
400	SMS.0420	Failed to obtain the disk details of the target server. Cause: %s	Failed to obtain the disk details of the target server. Cause: %s	Contact technical support.
400	SMS.0421	Failed to obtain the domain ID. Cause: %s	Failed to obtain the domain ID. Cause: %s	Contact technical support.
400	SMS.0422	Failed to obtain the details about the VPC with the specified ID.	Failed to obtain the details about the VPC with the specified ID.	Contact technical support.
400	SMS.0423	The VPC with the specified ID is abnormal.	The VPC with the specified ID is abnormal.	Contact technical support.

Status Code	Error Code	Error Message	Description	Handling Measure
400	SMS.0424	The obtained list of disks on the target server has no content.	The obtained list of disks on the target server has no content.	Contact technical support.
400	SMS.0501	Failed to report the task progress to SMS.	Failed to report the task progress to SMS.	Contact technical support.
400	SMS.0502	Source server registration failed. Cause: %s	Source server registration failed. Cause: %s	Contact technical support.
400	SMS.0503	Log upload failed. Cause: %s	Log upload failed. Cause: %s	Contact technical support.
400	SMS.0504	Failed to obtain task details. Cause: %s	Failed to obtain task details. Cause: %s	Contact technical support.
400	SMS.0505	Task %s not found. Check whether the task has been deleted.	Task %s not found. Check whether the task has been deleted.	If the task is not deleted, contact technical support.
400	SMS.0506	Failed to obtain template details. Template ID: %s	Failed to obtain template details. Template ID: %s	Contact technical support.
400	SMS.0507	Source server details has been deleted. Register it with SMS again.	Source server details deleted. Register it with SMS again.	Register the source server with SMS again.
400	SMS.0508	Failed to obtain commands from the source server. Cause: %s	Failed to obtain commands from the source server. Cause %s	Contact technical support.

Status Code	Error Code	Error Message	Description	Handling Measure
400	SMS.0510	Failed to update the replication status to %s.	Failed to update the replication status to %s.	Contact technical support.
400	SMS.0511	Failed to obtain the private key. Cause: %s	Failed to obtain the private key. Cause: %s	Contact technical support.
400	SMS.0512	Failed to update task details.	Failed to update task details.	Contact technical support.
400	SMS.0513	Failed to add the subtask.	Failed to add the subtask.	Contact technical support.
400	SMS.0514	Updating source server information failed. Cause: {0[0]}	Updating source server information failed. Cause: {0[0]}	Contact technical support.
400	SMS.0515	Migration failed. Source disk information has changed. Delete target server configuration and restart the Agent.	Migration failed. Source disk information has changed. Delete target server configuration and restart the Agent.	Delete target server configuration and restart the Agent.
400	SMS.0516	Failed to execute the synchronization task. Because the I/O monitoring module failed to run.	Failed to execute the synchronization task. Because the I/O monitoring module failed to run.	Contact technical support.
400	SMS.0519	Not enough space. Delete target configuration, restart Agent, and expand target partition.	Not enough space. Delete target configuration, restart Agent, and expand target partition.	Delete target configuration, restart Agent, and expand target partition.

Status Code	Error Code	Error Message	Description	Handling Measure
400	SMS.0601	Target server creation failed. Cause: %s	Target server creation failed. Cause: %s	Contact ECS technical support.
400	SMS.0602	VPC creation failed. Cause: %s	VPC creation failed. Cause: %s	Contact VPC technical support.
400	SMS.0603	Security group creation failed. Cause: %s	Security group creation failed. Cause: %s	Contact VPC technical support.
400	SMS.0604	Failed to add the security group rule. Cause: %s	Failed to add the security group rule. Cause: %s	Contact VPC technical support.
400	SMS.0605	Subnet creation failed. Cause: %s	Subnet creation failed. Cause: %s	Contact VPC technical support.
400	SMS.0606	No general-computing server flavors are available in this AZ. Select another flavor.	No general-computing server flavors are available in this AZ. Select another flavor.	Select another flavor.
400	SMS.0607	cloud-region.json does not contain details about the current region.	cloud-region.json does not contain details about the current region.	Contact technical support.
400	SMS.0608	Volume creation failed. Cause: %s	Volume creation failed. Cause: %s	Contact technical support.
400	SMS.0804	File upload failed.	File upload failed.	Check whether the network is functional.

Status Code	Error Code	Error Message	Description	Handling Measure
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.1101	Failed to start target server %s.	Failed to start target server %s.	Contact technical support.
400	SMS.1102	Failed to stop target server %s.	Failed to stop target server %s.	Contact technical support.
400	SMS.1103	Failed to attach disk %s. Cause: %s	Failed to attach disk %s. Cause: %s	Contact technical support.
400	SMS.1104	Failed to detach disk %s. Cause: %s	Failed to detach disk %s. Cause: %s	Contact technical support.
400	SMS.1105	Disk creation failed. Cause: %s	Disk creation failed. Cause: %s	Contact technical support.
400	SMS.1106	Failed to delete disk %s. Cause: %s	Failed to delete disk %s. Cause: %s	Contact technical support.
400	SMS.1107	Failed to upload the private key and certificate to target server: %s. Cause: %s	Failed to upload the private key and certificate to target server %s. Cause: %s	Contact technical support.
400	SMS.1108	Failed to detach disk %s.	Failed to detach disk %s.	Contact technical support.

Status Code	Error Code	Error Message	Description	Handling Measure
400	SMS.1109	An exception occurred when the private key and certificate are uploaded to target server %s.	An exception occurred when the private key and certificate are uploaded to target server %s	Contact technical support.
400	SMS.1110	Failed to attach disk %s.	Failed to attach disk %s.	Contact technical support.
400	SMS.1111	Failed to start target server %s. Cause: %s	Failed to start target server %s. Cause %s	Contact technical support.
400	SMS.1112	Failed to stop target server %s. Cause: %s	Failed to stop target server %s. Cause: %s	Contact technical support.
400	SMS.1113	Failed to reconfigure partition details on the target server.	Failed to reconfigure partition details on the target server.	Contact technical support.
400	SMS.1114	Failed to send command to the target server.	Failed to send command to the target server.	Contact technical support.
400	SMS.1116	Failed to set type for disk %s. Cause: %s	Failed to set type for disk %s. Cause: %s	Contact technical support.
400	SMS.1117	Failed to generate the RSA key pair on the target server.	Failed to generate the RSA key pair on the target server.	Contact technical support.
400	SMS.1118	Failed to query the content of file %s.	Failed to query the content of file %s.	Contact technical support.
400	SMS.1119	Failed to restart SSHD on the target server.	Failed to restart SSHD on the target server.	Contact technical support.

Status Code	Error Code	Error Message	Description	Handling Measure
400	SMS.1120	Command execution on the Windows server failed. Cause: missing command or command parameter.	Command execution on the Windows server failed. Cause: missing command or command parameter.	Contact technical support.
400	SMS.1201	%s not installed.	%s not installed.	Contact technical support.
400	SMS.1202	Public agent image not registered in this region. Download the latest Agent.	Public agent image not registered in this region. Download the latest Agent.	Download the latest Agent.
400	SMS.1203	Insufficient memory on the source server.	Insufficient memory on the source server.	Close programs on source server to release memory.
400	SMS.1204	Failed to create a file on the source server. Cause: %s	Failed to create a file on the source server. Cause: %s	Contact technical support.
400	SMS.1205	Failed to load WMI. Go to the official website to view the solution.	Failed to load WMI. Go to the official website to view the solution.	Handle the problem as instructed in the corresponding case.
400	SMS.1301	Failed to write partition information to the configuration file.	Failed to write partition information to the configuration file.	Contact technical support.
400	SMS.1311	Insufficient disks on the target server.	Insufficient disks on the target server.	Add disks to the target server.
400	SMS.1312	Partition failed. Disk: %s. Cause: %s	Partition failed. Disk: %s. Cause: %s	Contact technical support.

Status Code	Error Code	Error Message	Description	Handling Measure
400	SMS.1313	Failed to create physical volume %s. Cause: %s	Failed to create physical volume %s. Cause: %s	Contact technical support.
400	SMS.1314	Formatting failed. Partition: %s. Cause: %s	Formatting failed. Partition: %s. Cause: %s	Contact technical support.
400	SMS.1401	Failed to copy the I/O monitoring module.	Failed to copy the I/O monitoring module.	Contact technical support.
400	SMS.1402	SSH client not installed. Install the openssh-clients package and check the installation with ssh -V.	SSH client not installed. Install the openssh-clients package and check the installation with ssh -V.	If the problem persists, contact technical support.
400	SMS.1403	No GRUB file found. Find it under /boot.	No grub file found. Find it under /boot.	If there is no grub file under /boot, contact technical support.
400	SMS.1404	Disk %s is abnormal. Expected status: %s	Disk %s is abnormal. Expected status: %s	Contact technical support.
400	SMS.1405	Failed to obtain information about disk %s. Cause: %s	Failed to obtain information about disk %s. Cause: %s	Contact technical support.
400	SMS.1406	Failed to obtain the EIP. Cause: %s	Failed to obtain the EIP. Cause: %s	Contact technical support.
400	SMS.1407	Failed to obtain the target server specifications. Cause: %s	Failed to obtain the target server specifications. Cause: %s	Contact technical support.

Status Code	Error Code	Error Message	Description	Handling Measure
400	SMS.1408	Snapshot creation failed. Disk: %s. Cause: %s	Snapshot creation failed. Disk: %s. Cause: %s	Contact technical support.
400	SMS.1409	Failed to delete snapshot %s. Cause: %s	Failed to delete snapshot %s. Cause: %s	Contact technical support.
400	SMS.1410	Snapshot %s does not exist.	Snapshot %s does not exist.	Contact technical support.
400	SMS.1411	Snapshot %s is in the %s state.	Snapshot %s is in the %s state.	Contact technical support.
400	SMS.1412	Snapshot %s rollback failed. Cause: %s	Snapshot %s rollback failed. Cause: %s	Contact technical support.
400	SMS.1413	Failed to obtain the status of snapshot %s. Cause: %s	Failed to obtain the status of snapshot %s. Cause: %s	Contact technical support.
400	SMS.1414	The migration module stopped abnormally and cannot synchronize data.	The migration module stopped abnormally and cannot synchronize data.	Contact technical support.
400	SMS.1423	Failed to obtain details about snapshot %s. Cause: %s	Failed to obtain details about snapshot {0[0]}. Cause: {0[1]}	Contact technical support.
400	SMS.1501	OS version is not supported.	OS version is not supported.	Contact technical support.

Status Code	Error Code	Error Message	Description	Handling Measure
400	SMS.1502	Target server %s is abnormal. Expected status: %s	Target server %s is abnormal. Expected status: %s	Contact technical support.
400	SMS.1503	Disk %s is not the system boot disk.	Disk %s is not the system boot disk.	Contact technical support.
400	SMS.1504	The size of disks on the target server does not match those on the source server.	The sizes of disks on the target server do not match those on the source server.	Contact technical support.
400	SMS.1505	No boot partition found.	No boot partition found.	Contact technical support.
400	SMS.1506	No boot disk found.	No boot disk found.	Contact technical support.
400	SMS.1507	No system partition found.	No system partition found.	Contact technical support.
400	SMS.1701	The installed Agent cannot migrate the server to this region. Install the latest Agent.	The installed Agent cannot migrate the server to this region. Install the latest Agent.	If the problem persists, contact technical support.
400	SMS.1702	An error occurred when converting the string into the JSON format.	An error occurred when converting the string into the JSON format.	Contact technical support.
400	SMS.1801	Migration or synchronization task failed.	Migration or synchronization task failed.	Contact technical support.

Status Code	Error Code	Error Message	Description	Handling Measure
400	SMS.1802	The migration or synchronization task was paused.	The migration or synchronization task was paused.	Contact technical support.
400	SMS.1805	The migration or synchronization task failed because memory allocation on the target server failed.	The migration or synchronization task failed because memory allocation on the target server failed.	Contact technical support.
400	SMS.1807	Failed to connect to the target server. Check whether its IP address %s is reachable and confirm that port 8900 is enabled.	Failed to connect to the target server. Check whether its IP address %s is reachable and confirm that port 8900 is enabled.	If the connection still fails, contact technical support.
400	SMS.1901	Agent cannot read disk information.	Agent cannot read disk information.	Contact technical support.
400	SMS.1902	Failed to start the I/O monitoring module.	Failed to start the I/O monitoring module.	Contact technical support.
400	SMS.1903	No valid block data found.	No valid block data found.	Contact technical support.
400	SMS.1904	Failed to create a snapshot for the Windows server.	Failed to create a snapshot for the Windows server.	Contact technical support.
400	SMS.1905	Failed to read the disk information.	Failed to read the disk information.	Contact technical support.
400	SMS.1907	Failed to send the migration command.	Failed to send the migration command.	Contact technical support.

Status Code	Error Code	Error Message	Description	Handling Measure
400	SMS.1908	Data transmission failed.	Data transmission failed.	Contact technical support.
400	SMS.1909	Data compression failed.	Data compression failed.	Contact technical support.
400	SMS.1910	Failed to obtain the I/O monitoring data.	Failed to obtain the I/O monitoring data.	Contact technical support.
400	SMS.1911	Boot sector read error.	Boot sector read error.	Contact technical support.
400	SMS.2003	Volume reconfiguration failed.	Volume reconfiguration failed.	Contact technical support.
400	SMS.2004	Failed to back up volume sector details on the target server.	Failed to back up volume sector details on the target server.	Contact technical support.
400	SMS.2007	Failed to write data to disks on the target server.	Failed to write data to disks on the target server.	Contact technical support.
400	SMS.2009	Data decompression failed.	Data decompression failed.	Contact technical support.
400	SMS.2011	Failed to receive data.	Failed to receive data.	Contact technical support.
400	SMS.2012	Failed to read or parse the volume information from the configuration file.	Failed to read or parse the volume information from the configuration file.	Contact technical support.
400	SMS.2013	Failed to open the disk.	Failed to open the disk.	Contact technical support.
400	SMS.2014	Failed to hide the partition information.	Failed to hide the partition information.	Contact technical support.

Status Code	Error Code	Error Message	Description	Handling Measure
400	SMS.2015	Failed to restore the partition information.	Failed to restore the partition information.	Contact technical support.
400	SMS.2016	Drive letter restoration failed.	Drive letter restoration failed.	Contact technical support.
400	SMS.2017	Failed to traverse all volumes.	Failed to traverse all volumes.	Contact technical support.
400	SMS.2018	Error in reading the volume boot sector.	Error in reading the volume boot sector.	Contact technical support.
400	SMS.2101	Registry modification failed.	Registry modification failed.	Contact technical support.
400	SMS.2102	Failed to modify the device information.	Failed to modify the device information.	Contact technical support.
400	SMS.2103	Failed to set active partitions.	Failed to set active partitions.	Contact technical support.
400	SMS.2104	Failed to modify BCD configuration.	Failed to modify BCD configuration.	Contact technical support.
400	SMS.2105	Failed to modify boot configuration file.	Failed to modify boot configuration file.	Contact technical support.
400	SMS.2201	Failed to clear disk information.	Failed to clear disk information.	Contact technical support.
400	SMS.2202	Failed to convert the format of disk %s.	Failed to convert the format of disk %s.	Contact technical support.
400	SMS.2203	Failed to create partition %s.	Failed to create partition %s.	Contact technical support.

Status Code	Error Code	Error Message	Description	Handling Measure
400	SMS.2204	Failed to format partition %s.	Failed to format partition %s.	Contact technical support.
400	SMS.2205	Failed to update the partition information.	Failed to update the partition information.	Contact technical support.
400	SMS.2301	Failed to start ntcldst.	Failed to start ntcldst.	Contact technical support.
400	SMS.2802	Failed to connect to the target server. Check whether its IP address %s is reachable and port 8899 is enabled.	Failed to connect to the target server. Check whether its IP address %s is reachable and port 8899 is enabled.	If the connection still fails, contact technical support.
400	SMS.3101	Failed to modify the configuration file of the target server. Cause: %s	Failed to modify the configuration file of the target server. Cause: %s	Contact technical support.
400	SMS.3102	Failed to modify the initrd file on the target server. Cause: %s	Failed to modify the initrd file on the target server. Cause: %s	Contact technical support.
400	SMS.3103	Failed to execute bootloader on the target server. Cause: %s	Failed to execute bootloader on the target server. Cause: %s	Contact technical support.
400	SMS.3104	Failed to read /etc/fstab on the source server. Cause: %s	Failed to read /etc/fstab on the source server. Cause: %s	Contact technical support.

Status Code	Error Code	Error Message	Description	Handling Measure
400	SMS.3202	Failed to create volume group %s. Cause: %s	Failed to create volume group %s. Cause: %s	Contact technical support.
400	SMS.3203	Failed to create logical volume %s. Cause: %s	Failed to create logical volume %s. Cause: %s	Contact technical support.
400	SMS.3204	Failed to create swap partition %s. Cause: %s	Failed to create swap partition %s. Cause: %s	Contact technical support.
400	SMS.3205	Failed to mount partition %s to directory %s. Cause: %s	Failed to mount partition %s to directory %s. Cause: %s	Contact technical support.
400	SMS.3206	Failed to obtain the UUID of the partition on the target server. Cause: %s	Failed to obtain the UUID of the partition on the target server. Cause: %s	Contact technical support.
400	SMS.3207	Failed to create file %s on the target server. Cause: %s	Failed to create file %s on the target server. Cause: %s	Contact technical support.
400	SMS.3208	Failed to write file %s on the target server. Cause: %s	Failed to write file %s on the target server. Cause: %s	Contact technical support.
400	SMS.3209	Failed to assign execution permission to the script on the target server. Cause: %s	Failed to assign execution permission to the script on the target server. Cause: %s	Contact technical support.

Status Code	Error Code	Error Message	Description	Handling Measure
400	SMS.3210	Failed to format partition {0[0]} to {0[1]}. Cause: {0[2]}	Failed to format partition {0[0]} to {0[1]}. Cause: {0[2]}	Contact technical support.
400	SMS.3300	Failed to read the configuration file for Linux block-level migration.	Failed to read the configuration file for Linux block-level migration.	Download the latest Agent.
400	SMS.3301	Failed to load the SSL certificate.	Failed to load the SSL certificate.	Create a migration task again.
400	SMS.3401	Download of RSA public and private keys failed. HTTP Status Code: %s	Download of RSA public and private keys failed. HTTP Status Code: %s	Contact technical support.
400	SMS.3402	Download of RSA public and private keys failed.	Download of RSA public and private keys failed.	Contact technical support.
400	SMS.3802	Failed to establish an SSH connection with the target server.	Failed to establish an SSH connection with the target server.	Check the network.
400	SMS.3803	The connection to the target server failed, because an error occurred during the public key verification on the target server.	The connection to the target server failed, because an error occurred during the public key verification on the target server.	Contact technical support.

Status Code	Error Code	Error Message	Description	Handling Measure
400	SMS.3804	The connection to the target server failed due to invalid connection credential.	The connection to the target server failed due to invalid connection credential.	Contact technical support.
400	SMS.3805	The connection to the target server timed out.	The connection to the target server timed out.	Check the network.
400	SMS.3806	The connection to the target server was rejected.	The connection to the target server was rejected.	Contact technical support.
400	SMS.3807	Failed to upload the file to the target server.	Failed to upload the file to the target server.	Contact technical support.
400	SMS.5101	Agent installation failed.	Agent installation failed.	Contact technical support.
400	SMS.5102	Agent startup failed because the noexec permission is unavailable on /tmp in Linux.	Agent startup failed because the noexec permission is unavailable on /tmp in Linux.	Grant the noexec permission to the /tmp directory.
400	SMS.5103	Agent startup failed due to insufficient space on /tmp in Linux.	Agent startup failed due to insufficient space on /tmp in Linux.	Increase the size of /tmp.
400	SMS.5104	Failed to paste AK or SK.	Failed to paste AK or SK.	Restart the Agent.

Status Code	Error Code	Error Message	Description	Handling Measure
400	SMS.5105	Agent startup failed because the current shell character set is wrong.	Agent startup failed because the current shell character set is wrong.	Set the coding mode of the character set to UTF-8.
400	SMS.5106	Internal error. Failed to create a temporary directory.	Internal error. Failed to create a temporary directory.	Run the Agent as administrator.
400	SMS.5107	Failed to open the file for writing.	Failed to open the file for writing.	Contact technical support.
400	SMS.5108	Failed to execute df - TH.	Failed to execute df - TH.	Check whether a mounted device is offline or does not exist.
400	SMS.5109	The application cannot be started due to incorrect parallel configuration.	The application cannot be started due to incorrect parallel configuration.	Run SMSAgentDeploy.exe directly.
400	SMS.5110	The Windows Agent unable to launch.	The Windows Agent unable to launch.	Unlock the file and try again.
400	SMS.5111	Agent startup failed. Multiple volume groups found with the same name.	Agent startup failed. Multiple volume groups found with the same name.	-
400	SMS.5301	Bootling with GRUB failed.	Bootling with GRUB failed.	Reinstall the GRUB bootloader.
400	SMS.5302	Failed to install the KVM driver.	Failed to install the KVM driver.	Uninstall the Xen driver and install the KVM driver.

Status Code	Error Code	Error Message	Description	Handling Measure
400	SMS.5401	Disks of the target server running Windows are offline.	Disks of the Windows target server are offline.	Bring the disks online manually.
400	SMS.5402	Network error on the target server running Windows 2003.	Network error on the target server running Windows 2003.	Use another migration method.
400	SMS.5403	Progress is slow or suspended.	Progress is slow or suspended.	Check whether the bandwidth is too low.
400	SMS.5404	The target server running CentOS 6.x cannot access the Internet.	The target server running CentOS 6.x cannot access the Internet.	Contact technical support.
400	SMS.5601	The disk usage changes greatly after migration.	The disk usage changes greatly after migration.	Contact technical support.
400	SMS.5602	Time error occurred in the target server running Linux.	Time error occurred in the target server running Linux.	Use NTP for time synchronization.
400	SMS.5603	The target server running Windows cannot access the Internet.	The target server running Windows cannot access the Internet.	Reinstall the NIC driver.
400	SMS.5604	The target MySQL database cannot be started.	The MySQL service on the target server cannot be started.	Stop services and synchronize data again.

Status Code	Error Code	Error Message	Description	Handling Measure
400	SMS.5605	After the migration is complete, the target server starts and the System Recovery Options window is displayed.	After the migration is complete, the target server starts and the System Recovery Options window is displayed.	Contact technical support.
400	SMS.5606	Windows fails to start because the Xen driver is abnormal.	Windows fails to start because the Xen driver is abnormal.	Contact technical support.
400	SMS.6000	Service error.	Service error.	Contact technical support.
400	SMS.6001	The source server name is a required field.	The source server name is a required field.	Specify the source server name.
400	SMS.6002	Source server names must consist of 4 to 20 characters.	Source server names must consist of 4 to 20 characters.	Specify a source server name containing 4 to 20 characters.
400	SMS.6003	Uppercase letters, lowercase letters, and digits are allowed.	Uppercase letters, lowercase letters, and digits are allowed.	Specify a source server name with uppercase letters, lowercase characters, or digits.
400	SMS.6004	Invalid subtask name.	Invalid subtask name.	Enter a valid subtask name.
400	SMS.6010	The request body is not in the JSON format.	The request body is not in the JSON format.	Set the request body as required.
400	SMS.6011	The JSON request body does not meet the specifications.	The JSON request body does not meet the specifications.	Set the request body as required.

Status Code	Error Code	Error Message	Description	Handling Measure
400	SMS.6012	Empty request body.	Empty request body.	Set the request body as required.
400	SMS.6013	Incomplete request parameters.	Incomplete request parameters.	Check whether all required parameters are included.
400	SMS.6014	The parameter part in the request body is too long.	The parameter part in the request body is too long.	Modify the request parameters.
400	SMS.6015	The request header is missing.	The request header is missing.	Add a request header.
400	SMS.6016	The header type must be application/json.	The header type must be application/json.	Ensure that the request header type is application/json.
400	SMS.6020	The command name is missing.	The command name is missing.	Contact technical support.
400	SMS.6021	The command from the Agent is inconsistent with that from SMS.	The command from the Agent is inconsistent with that from SMS.	Enter the command from SMS correctly.
400	SMS.6022	Incorrect result format.	Incorrect result format.	Set the result in the correct format.
400	SMS.6023	Incorrect result_detail format.	Incorrect result_detail format.	Set result_detail in the correct format.
400	SMS.6030	Invalid source server ID.	Invalid source server ID.	Enter a correct source server ID.
400	SMS.6031	The target server information is missing.	The target server information is missing.	Enter the required target server information.

Status Code	Error Code	Error Message	Description	Handling Measure
400	SMS.6032	The target server ID is missing.	The target server ID is missing.	Enter the target server ID.
400	SMS.6033	The disk information is missing.	The disk information is missing.	Enter the disk information of the target server.
400	SMS.6034	Invalid region name.	Invalid region name.	Enter a valid region name.
400	SMS.6035	Domain ID is missing.	Domain ID is missing.	Enter the domain ID.
400	SMS.6101	Invalid migration progress.	Invalid migration progress.	Enter an integer ranging from 0 to 100.
400	SMS.6102	Parameters do not meet the JSON format requirements.	Parameters do not meet the JSON format requirements.	Check whether the JSON format is correct.
400	SMS.6103	Disk ID is missing.	Disk ID is missing.	Enter a disk ID.
400	SMS.6104	Physical volume name is missing.	Physical volume name is missing.	Enter a volume name.
400	SMS.6105	Physical volume size is missing or invalid.	Physical volume size is missing or invalid.	Enter a valid volume size.
400	SMS.6301	Database read or write error.	Database read or write error.	Contact technical support.
400	SMS.6302	No migration speed limit found.	No migration speed limit found.	Reset the migration speed limit
400	SMS.6303	The installed Agent is of an earlier version. Download the latest version.	The installed Agent is of an earlier version. Download the latest version.	Download the latest version.

Status Code	Error Code	Error Message	Description	Handling Measure
400	SMS.6401	Unsupported encoding mode.	Unsupported encoding mode.	Use a correct encoding mode.
400	SMS.6402	The algorithm does not exist.	The algorithm does not exist.	Contact technical support.
400	SMS.6403	Failed to split into strings of the specified size.	Failed to split into strings of the specified size.	Contact technical support.
400	SMS.6404	An error occurred during integer conversion.	An error occurred during integer conversion.	Contact technical support.
400	SMS.6405	Invalid time format.	Invalid time format.	Check the time format.
400	SMS.6501	You can add up to 1000 source servers.	You can add up to 1000 source servers.	Delete the source servers that have been migrated.
400	SMS.6502	Environment check cannot be performed on the source server in the CHECKING state.	Environment check cannot be performed on the source server in the CHECKING state.	Contact technical support.
400	SMS.6503	Failed to obtain the OS version of the source server.	Failed to obtain the OS version of the source server.	Enter the OS version of the source server.
400	SMS.6504	Unsupported source server OS version or firmware type.	Unsupported source server OS version or firmware type.	Review which source server OSs and firmware types are supported.
400	SMS.6505	Unknown firmware type. It must be BIOS or UEFI.	Unknown source firmware type. It must be BIOS or UEFI.	Use another migration method.

Status Code	Error Code	Error Message	Description	Handling Measure
400	SMS.6506	Failed to obtain the number of source server CPUs.	Failed to obtain the number of source server CPUs.	Contact technical support.
400	SMS.6507	Failed to open the system directory of the source server.	Failed to open the system directory of the source server.	Contact technical support.
400	SMS.6508	Incompatible disk format on the source server. Only GPT and MBR are compatible.	Incompatible disk format on the source server. Only GPT and MBR are compatible.	Use another migration method.
400	SMS.6509	Incompatible file system of the source server.	Incompatible file system of the source server.	Use another migration method.
400	SMS.6510	The source server OS is an OEM system.	The source server OS is an OEM system.	Activate the system after migration.
400	SMS.6511	The source server lacks driver files.	The source server lacks driver files.	Contact technical support.
400	SMS.6512	The system services required for the migration on the source server are not running normally.	The system services required for the migration on the source server are not running normally.	Contact technical support.
400	SMS.6513	No administrator permissions on the source server.	No administrator permissions on the source server.	Check whether the current account has the administrator permissions.

Status Code	Error Code	Error Message	Description	Handling Measure
400	SMS.6514	Failed to obtain the memory size of the source server.	Failed to obtain the memory size of the source server.	Contact technical support.
400	SMS.6515	The source server is paravirtualized.	The source server is paravirtualized.	Use another migration method.
400	SMS.6516	The Linux bootloader must be GRUB.	The Linux bootloader must be GRUB.	Check whether the Linux bootloader is GRUB.
400	SMS.6517	rsync not installed on the source server.	rsync not installed on the source server.	Install rsync on the source server.
400	SMS.6518	The source server has a raw device.	The source server has a raw device.	Use another migration method.
400	SMS.6519	Failed to obtain disk information.	Failed to obtain disk information.	Contact technical support.
400	SMS.6520	The source server is not in the AVAILABLE state.	The source server is not in the AVAILABLE state.	Check the source server status.
400	SMS.6521	Token-based authentication failed.	Token-based authentication failed.	Use the correct token.
400	SMS.6522	The X-Auth-Token header field is missing.	The X-Auth-Token header field is missing.	Add X-Auth-Token.
400	SMS.6523	Apply for the permission required to operate SMS.	Apply for the permission required to operate SMS.	Ensure that you have the sms_administrator permission.

Status Code	Error Code	Error Message	Description	Handling Measure
400	SMS.6524	Apply for OBT to perform this operation.	This operation is not allowed because you are not an OBT user.	Join the OBT.
400	SMS.6525	Insufficient balance.	Insufficient balance.	Ensure that the account balance is no less than ¥100 CNY.
400	SMS.6526	Insufficient quota to clone the target server.	Insufficient quota to clone the target server.	Increase the cloud server quota.
400	SMS.6527	The resource in the task does not belong to you.	The resource in the task does not belong to you.	Check the resources that belong to you.
400	SMS.6529	SMS API call failed. Your account is in arrears.	SMS API call failed. Your account is in arrears.	Ensure that the account balance is no less than ¥100 CNY.
400	SMS.6530	Invalid source server IP address.	Invalid source server IP address.	Enter a correct source server IP address.
400	SMS.6531	The boot partition does not exist.	The boot partition does not exist.	Check whether the boot partition of the source server exists.
400	SMS.6532	The system disk must be on the first disk.	The system disk must be on the first disk.	Check whether the system disk is on the first disk.
400	SMS.6533	VSS not installed on the source server.	VSS not installed on the source server.	Check whether VSS has been installed and started.
400	SMS.6534	No system directory information read.	No system directory information read.	Contact technical support.

Status Code	Error Code	Error Message	Description	Handling Measure
400	SMS.6535	Servers booted with UEFI do not support auto-creation of target servers for migration.	Servers booted with UEFI do not support auto-creation of target servers for migration.	Create a target ECS booted with UEFI and select the ECS as the target server.
400	SMS.6536	The source server runs Windows 2003. Network may be unavailable after migration.	The source server runs Windows 2003. Network may be unavailable after migration.	Upgrade the system and perform the migration.
400	SMS.6537	SMS cannot migrate system disks larger than 1 TB.	SMS cannot migrate system disks larger than 1 TB.	Decrease the size of the source system disk.
400	SMS.6538	The partition or volume after adjustment should be 1 GB larger than the used space.	The new partition or logical volume size is less than the used space size.	Ensure that the new partition or logical volume size is at least 1 GB larger than the used space size.
400	SMS.6540	Partitions on target servers running Windows cannot be reduced.	Partitions on target servers running Windows cannot be reduced.	Resize the partitions on source disks and restart the Agent
400	SMS.6560	Failed to obtain the project-level token.	Failed to obtain the project-level token.	Contact technical support.

Status Code	Error Code	Error Message	Description	Handling Measure
400	SMS.6561	The target server is not booted with UEFI. Create a target server using the image whose boot mode is UEFI.	The target server is not booted with UEFI. Create a target server using the image whose boot mode is UEFI.	Create a target server using the image whose boot mode is UEFI.
400	SMS.6601	Invalid OS type.	Invalid OS type.	Set <code>os_type</code> by referring to <i>SMS API Reference</i> .
400	SMS.6602	Invalid target server EIP.	Invalid target server EIP.	Enter an IP address in the correct format.
400	SMS.6603	The connection to SMS was lost.	The connection to SMS was lost.	Re-establish the connection between the source server and SMS. For details, see "Migration Network" in <i>SMS FAQs</i> .
400	SMS.6604	Failed to obtain ACL or firewall details for the target server.	Failed to obtain ACL or firewall details for the target server.	Contact technical support.
400	SMS.6605	ACL or security group configuration error.	ACL or security group configuration error.	Modify the ACL or security group configuration.
400	SMS.6610	The OS in the task conflicts with the source server OS.	The OS in the task conflicts with the source server OS.	Check whether the OS in the task is consistent with the source server OS.
400	SMS.6611	Insufficient partition space than required.	Insufficient partition space than required.	Increase the partition space.

Status Code	Error Code	Error Message	Description	Handling Measure
400	SMS.6612	Invalid partition size. The partition size must be an integer multiple of MB.	Invalid partition size. The partition size must be an integer multiple of MB.	Enter a valid partition size.
400	SMS.6613	33 MB of space must be reserved for GPT disks.	33 MB of space must be reserved for GPT disks.	Reserve 33 MB of space for GPT disks.
400	SMS.6614	The target disk space must be greater than the total space of all partitions.	The target disk space must be greater than the total space of all partitions.	Increase the target disk space.
400	SMS.6615	The target server has been added to a migration task.	The target server has been added to a migration task.	Change another server.
400	SMS.6616	The current OS does not support block-level migration.	The current OS does not support block-level migration.	Use another migration method.
400	SMS.6617	The current kernel does not support block-level migration.	The current kernel does not support block-level migration.	Use another migration method.
400	SMS.6618	Failed to obtain kernel details.	Failed to obtain kernel details.	Contact technical support.
400	SMS.7101	The template does not exist.	Template does not exist.	Check whether the template exists.

Status Code	Error Code	Error Message	Description	Handling Measure
400	SMS.7111	All tasks associated with this template must be deleted first.	All tasks associated with this template must be deleted first.	Delete the associated tasks first.
400	SMS.7112	Duplicate template name.	Duplicate template name.	Change the template name.
400	SMS.7301	The specified migration project does not exist.	The specified migration project does not exist.	Check whether the migration project exists.
400	SMS.7303	Invalid migration project parameters.	Invalid migration project parameters.	Check the project parameters.
400	SMS.7304	The default migration project does not exist.	The default migration project does not exist.	Create a default migration project first.
400	SMS.7311	All source servers associated with the migration project must be deleted first.	All source servers associated with the migration project must be deleted first.	Delete all associated source servers first.
400	SMS.7312	Duplicate migration project name.	Duplicate migration project name.	Change the migration project name.
400	SMS.7313	The default migration project already exists.	The default migration project already exists.	Contact technical support.
400	SMS.7321	The region name in the template is inconsistent with that in the migration project.	The region name in the template is inconsistent with that in the migration project.	Contact technical support.

Status Code	Error Code	Error Message	Description	Handling Measure
400	SMS.7501	No application ID generated.	No application ID generated.	Contact technical support.
400	SMS.7602	The specified source server does not exist.	The specified source server does not exist.	Check whether the source server exists.
400	SMS.7604	Failed to generate the source server ID.	Failed to generate the source server ID.	Contact technical support.
400	SMS.7605	There is a migration task on the source server.	There is a migration task on the source server.	Delete the task and create a new one.
400	SMS.7606	No migration task running on the source server.	No migration task running on the source server.	Contact technical support.
400	SMS.7703	Task does not exist.	Task does not exist.	Check whether the task exists.
400	SMS.7705	An error occurred when processing JSON files during task creation.	An error occurred when processing JSON files during task creation.	Contact technical support.
400	SMS.7706	Task update failed.	Task update failed.	Contact technical support.
400	SMS.7711	Invalid task name.	Invalid task name.	Enter a valid task name.
400	SMS.7712	Invalid task type.	Invalid task type.	Enter a valid task type.
400	SMS.7713	Only tasks in the Ready for next, Paused, or Error state can be started.	Only tasks in the Ready for next, Paused, or Error state can be started.	Change the task status.

Status Code	Error Code	Error Message	Description	Handling Measure
400	SMS.7714	Only running tasks can be paused.	Only running tasks can be paused.	Change the task status.
400	SMS.7715	Only tasks in the Finished state or in the Continuous synchronization stage can be synchronized.	Only tasks in the Finished state or in the Continuous synchronization stage can be synchronized.	Change the task status.
400	SMS.7716	Logs can be collected only after the current log collection is completed.	Logs can be collected only after the current log collection is completed.	Wait until the current log collection is complete.
400	SMS.7717	Logs can be collected after the migration task is started.	Logs can be collected after the migration task is started.	Start the task first.
400	SMS.7718	Only tasks in the Synchronization failed state can be rolled back.	Only tasks in the Synchronization failed state can be rolled back.	Change the task status.
400	SMS.7719	Tasks in current state cannot be deleted.	Tasks in current state cannot be deleted.	Change the task status.
400	SMS.7721	Only target servers in tasks in the Continuous synchronization state can be cloned or started.	Only target servers in tasks in the Continuous synchronization state can be cloned or started.	Change the task status.

Status Code	Error Code	Error Message	Description	Handling Measure
400	SMS.7722	Only tasks where the target servers have successfully started can be restarted.	Only tasks where the target servers have successfully started can be restarted.	Check whether the target server for the task has been started successfully.
400	SMS.7723	Failed to delete the task. Ensure that the Agent is connected.	Failed to delete the task. Ensure that the Agent is connected.	Ensure that the Agent is connected.
400	SMS.7724	No project ID found.	No project ID found.	Contact technical support.
400	SMS.7725	No region information found.	No region information found.	Contact technical support.
400	SMS.8101	Failed to stop the target server.	Failed to stop the target server.	Contact technical support.
400	SMS.8102	The target server is missing.	The target server is missing.	Set the parameter for the target server.
400	SMS.8103	The target server does not exist	The target server does not exist.	Check whether the server has been deleted.
400	SMS.8104	Failed to obtain details about the target server.	Failed to obtain details about the target server.	Contact technical support.
400	SMS.8105	Failed to obtain the details about disks on the target server.	Failed to obtain the details about disks on the target server.	Contact technical support.
400	SMS.8106	Invalid information about disks on the target server.	Invalid information about disks on the target server.	Check whether the target disk information is correct.

Status Code	Error Code	Error Message	Description	Handling Measure
400	SMS.8107	No Agent image disk found on the target server.	No agent image found on the target server.	Check whether the image has been deleted.
400	SMS.8108	Disk attachment failed.	Disk attachment failed.	Contact technical support.
400	SMS.8109	No source server found.	No source server found.	Check whether the server record has been deleted.
400	SMS.8110	Disk detachment failed.	Disk detachment failed.	Contact technical support.
400	SMS.8111	No disk information found.	No disk information found.	Check whether the target disk information is correct.
400	SMS.8112	No snapshot information found.	No snapshot information found.	Check whether the snapshot exists.
400	SMS.8113	The snapshot does not exist.	The snapshot does not exist.	Check whether the snapshot has been deleted.
400	SMS.8114	Failed to unlock the target server.	Failed to unlock the target server.	Check whether you have the permission to perform this operation.
400	SMS.9001	Invalid parameters.	Invalid parameters.	Check whether the parameters are correctly specified.
400	SMS.9002	User tags are not supported.	User tags are not supported.	User tags are not supported temporarily.
400	SMS.9003	Insufficient permission.	Insufficient permissions.	Add corresponding fine-grained permissions.

Status Code	Error Code	Error Message	Description	Handling Measure
400	SMS.9004	The current account does not have the permission to execute policy {0}.	The current account does not have the permission to execute policy {0}.	Add corresponding fine-grained permissions.
400	SMS.9005	Failed to bind the enterprise project.	Failed to bind the enterprise project.	Contact technical support.

6.2 Status Codes

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

Table 6-1 Status codes

Status Code	Error Message	Description
100	Continue	The client continues sending the request. This interim response is used to inform the client that the initial part of the request has been received and has not yet been rejected by the server.
101	Switching Protocols	Switching protocols. The target protocol must be more advanced than the source protocol. For example, the current HTTP protocol is switched to a later version.
200	OK	The results of GET and PUT operations are returned as expected.
201	Created	The request for creating a resource has been fulfilled.
202	Accepted	The request has been accepted, but the processing has not been completed.
203	Non-Authoritative Information	The server successfully processed the request, but is returning information that may be from another source.
204	NoContent	The server has successfully processed the request, but has not returned any content. The status code is returned in response to an HTTP OPTIONS request.
205	Reset Content	The server has fulfilled the request, but the requester is required to reset the content.

Status Code	Error Message	Description
206	Partial Content	The server has processed certain GET requests.
300	Multiple Choices	There are multiple options for the location of the requested resource. The response contains a list of resource characteristics and addresses from which the user or user agent (such as a browser) can choose the most appropriate one.
301	Moved Permanently	The requested resource has been assigned a new permanent URI, and the new URI is contained in the response.
302	Found	The requested resource resides temporarily under a different URI.
303	See Other	Retrieve a location. The response to the request can be found under a different URI and should be retrieved using a GET or POST method.
304	Not Modified	The requested resource has not been modified. In such a case, there is no need to retransmit the resource since the client still has a previously-downloaded copy.
305	Use Proxy	The requested resource must be accessed through a proxy.
306	Unused	The HTTP status code is no longer used.
400	BadRequest	Invalid request. The client should not repeat the request without modifications.
401	Unauthorized	The status code is returned after the client provides the authentication information, indicating that the authentication information is incorrect or invalid.
402	Payment Required	This status code is reserved for future use.
403	Forbidden	The server understood the request, but is refusing to fulfill it. The client should not repeat the request without modifications.
404	NotFound	The requested resource cannot be found. The client should not repeat the request without modifications.

Status Code	Error Message	Description
405	MethodNotAllowed	The method specified in the request is not supported for the requested resource. The client should not repeat the request without modifications.
406	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. The client may repeat the request without modifications at any later time.
409	Conflict	The request cannot be processed due to a conflict. This status code indicates that the resource that the client attempts to create already exists, or the request fails to be processed because of the update of the conflict request.
410	Gone	The requested resource is no longer available. The status code indicates that the requested resource has been deleted permanently.
411	Length Required	The server refuses to process the request without a defined Content-Length.
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.

Status Code	Error Message	Description
422	UnprocessableEntity	The request is well-formed but is unable to be processed due to semantic errors.
429	TooManyRequests	The client has sent more requests than its rate limit is allowed within a given amount of time, or the server has received more requests than it is able to process within a given amount of time. In this case, it is advisable for the client to re-initiate requests after the time specified in the Retry-After header of the response expires.
500	InternalServerError	The server is able to receive the request but it cannot understand the request.
501	Not Implemented	The server does not support the requested function.
502	Bad Gateway	The server is acting as a gateway or proxy and receives an invalid request from a remote server.
503	ServiceUnavailable	The requested service is invalid. The client should not repeat the request without modifications.
504	ServerTimeout	The request cannot be fulfilled within a given time. This status code is returned to the client only when the Timeout parameter is specified in the request.
505	HTTP Version not supported	The server does not support the HTTP protocol version used in the request.

In the message body, the error information is described in JSON format as follows:

```
{"error_code": "S3M.XXXX", "error_msg": "Error description"}
```

6.3 Out-of-Date Error Codes

If an error occurs in an API, no result is returned. You can locate the error cause based on the error codes of each API. If an error occurs in API calling, HTTP status code 4xx or 5xx is returned. The response body contains the specific error code and information.

Error Response Body Format

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 boot partition does not exist.",
  "error_code": "SMS.6531"
}
```

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

Error code description

Table 6-2 Error code description

Status Code	Error Code	Description
400	SMS.1038	Only the tasks that are created or monitored can be paused.
400	SMS.1039	Only paused tasks can be resumed.
400	SMS.1040	Only migration tasks that fail to be created or migrated can be restarted.
403	SMS.2002	You do not have permission to perform this operation.
401	SMS.2003	Invalid HTTP request method.
401	SMS.2004	The requested content contains more than 10,240 bytes.
401	SMS.2005	The request type Content-Type is not specified.
401	SMS.2006	The request type must be application or json .
500	SMS.2007	Background exception
400	SMS.2009	The command sent by the client is inconsistent with that on the SMS service.
401	SMS.2013	The source server already exists.
400	SMS.2015	The in-progress or stopped tasks cannot be deleted.
400	SMS.2206	The OS type of the source server is not in the migration support list.
400	SMS.2216	Failed to create the migration task because the specified source server does not exist.
403	SMS.2248	The resource that does not belong to you cannot be deleted.
404	SMS.2252	No migration task is associated with the specified source server.

6.4 Obtaining a Project ID

Scenarios

A project ID is required for some URLs when an API is called. Therefore, you need to obtain a project ID in advance. Two methods are available:

- [Obtain the Project ID by Calling an API](#)
- [Obtain a Project ID from the Console](#)

Obtaining a Project ID by Calling an API

You can obtain the project ID by calling the IAM API used to query project information based on the 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": "65382450e8f64ac0870cd180d14e684b",
      "is_domain": false,
      "parent_id": "65382450e8f64ac0870cd180d14e684b",
      "name": "project_name",
      "description": "",
      "links": {
        "next": null,
        "previous": null,
        "self": "https://www.example.com/v3/projects/a4a5d4098fb4474fa22cd05f897d6b99"
      },
      "id": "a4a5d4098fb4474fa22cd05f897d6b99",
      "enabled": true
    }
  ],
  "links": {
    "next": null,
    "previous": null,
    "self": "https://www.example.com/v3/projects"
  }
}
```

Obtain a Project ID from the Console

To obtain a project ID from the console, perform the following operations:

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

On the **My Credentials** page, view the project ID (value in the **Project ID** column).

A Change History

Released On	Description
2022-06-07	This issue is the second official release. <ul style="list-style-type: none">• Added APIs V3.0.• Added Error Codes.
2020-11-05	This issue is the first official release.